# BOLİN

NDI HX3
Outdoor PTZ Camera



EXU230NX

#### Full HD NDI HX3 PTZ Camera

The EXU230NX outdoor NDI HX3 PTZ camera is equipped with Sony image block with 30x zoom range UHD lens to provide Full HD (1080P60) crystal extreme high-quality color image in tough low light environment and stable image with super image stabilizer to output HMDI, 3G-SDI, Optical SDI, and NDI HX3 video streaming for NDI® and are fully compatible with NDI-enabled hardware and software for Live production in outdoor environment and even in extreme weather condition.

#### **K**EY FEATURES

#### EXU230NX



- NDI HX3 Certified
- Sony 1/1.18 type CMOS sensor STARVIS II
- 30X zoom range
- Resolution 1080i59.94, 1080p60
- IP Video Resolution: Up to 1080p60
- Video Output: Simultaneous 3G-SDI, HDMI, NDI HX3
- SFP Optical SDI video output
- RTSP. RTMP, SRT Supported
- NDI Control, Visca Ocer IP, Onvif, FreeD, Serial Control
- Extreme Low Light Performance
- Super Image Stabilizer
- Weather proof IP67 rated





200M **20X** 

























# **IMAGE MODULE**

- The latest Sony new image block that achieves higher visibility by adopting the 8M ultra high resolution lens, 4M image sensor and ISP from Sony.
- 1/1.8 inch STARVIS II sensor
- Enhanced High Resolution image quality
- 30X 8M High Resolution optical zoom lens
- Advanced AF performance
- Wide Dynamic Range (Wide-D)
- Visibility Enhancer (VE)
- Super low light in color performance
- Super image stabilizer

## SONY



## **FEATURES**

## Image Quality Upgraded in Day and Night

The 8M compatible lens, 4M image sensor (1/1.8 type), and ISP all use new devices from Japanese manufacturers. The combination of these three Core technologies provides an overwhelming sense of resolution, and the advanced AF/AE/AWB functions reproduce faithful images even in low-light environments.



High Resolution-Day Light (Pre/New)



High Resolution-Night View (Pre/New)

## Super Image Stabilizer

- The camera enables two levels of image stabilization capabilities, super, super+, which provides clear pricture/image in vibrating environment use.
- See EXU230H Stabilization Performance video on Bolin's website.



## Low Light Performance

- Thanks to the new Sony 1/1.18 type CMOS sensor STARVIS II, the camera performans a great and clean image in extreme low light condition in color, and even with ICR on in color.
- See EXU230H image performance video on Bolin's website.



# Interoperability | Low Latency | High Quality



## **EXU230NX Output Interface**



#### Full Broadcast SDI Format and Standard

#### **Full Format**

1920 x 1080P 60/59.94/50/30/29.97/25/24/23.98

1920 x 1080i 60/59.94/50

1280 x 720P 60/59.94/50

#### **SDI Standard**

SMPTE 292M

SMPTE 296M (1.5Gb/s)

SMPTE 424M

SMPTE 274M

SMPTE 425-A (3Gb/s)

With SMPTE352 SDI Metadata Supported

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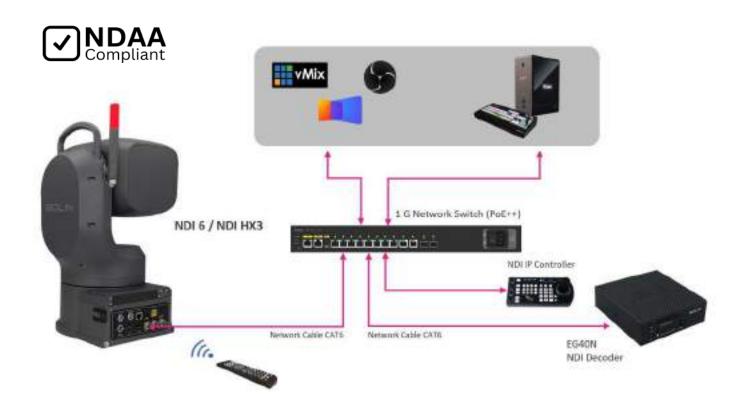
#### FreeD Protocol Integrated for VR/AR Video Production

FreeD helps provide all the axis data needed for a Bolin PTZ camera to intelligently and smoothly pan, tilt, and zoom while following designated objects and people. Broadcasters can combine Bolin's FreeD-enabled PTZ cameras with available, sophisticated software to automate complex camera operations with spectacular results. It is especially useful for virtual live video productions with baseband video feeds and, with Bolin PTZ cameras, with ultra-low latency AV Over IP streaming



#### Various Control Methods

- IP Control, Serial Control, IR Remote Control, Rest API-Software Control
- Protocol Supported: NDI Control, VISCA Over IP, ONVIF, VISCA, PELCO P/D, FreeD
- NDI Control is fully compatible with NDI Ecosystem, Tricaster, vMix, OBS, ProPresenter, etc.



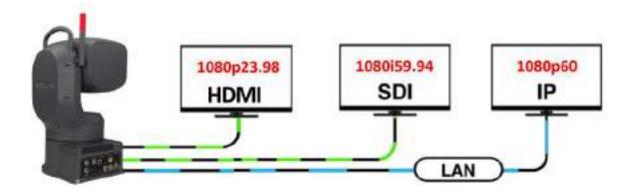
- External Synchronization Genlock
- Audio embedded with all video output
- XLR broadcast audio input/output
- On-screen character generator
- All firmware upgrade via IP
- Tally Light

- Power Output for 3rd device
- POE++ and 24VDC/AC
- Rain Wiper built-in
- Weatherproof IP67 rated with tail cable cover for permanent mount
- Rainwater protection cover with cable support for tripod mount use



# True Tri-Output

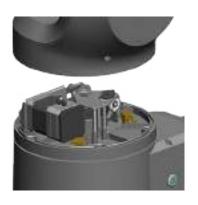
IP, SDI, and HDMI can be set to independent formats for different application use



# **RUGGED** and **DURABLE**



Sun Shield and Hidden-Type Rain Wiper



All stainless Steel/brass/metal interior mechanical parts



Rainwater protection cover with cable support for tripod mount use



Weatherproof IP67 rated with tail cable cover for permanent mount use

- Wind Load Durability, Non-Destructive and steady operation at up to 60 m/s
- Heater, Defroster built-in
- –40 °C to 60 °C (-40°F to 140°F) operational



# **INSTALLATION**

#### **Permanent Installation**

- IP67 wall mount bracket (ES-WM)
- Quick release docking system
- Wiring conduit/pipe interface
- Upright/Pendant Mount
- Waterproof compartment for accessories
- Ceiling pendent mount (C-PMBA)





- Tripod mount
- Tripod mount rain waterproof rear panel cover
- Cable support
- ¼", 3/8" tripod threads



## **Vibration Absorption Platform** (VAP-10)

 Use on Stage, Vehicle, Moving Platform, Vibration Prone Environments

## **Base Mount (QR-BM)**

- For flat surface upright mount
- Quick release docking system





## **MOVEMENT**

## **Smooth and Accurate Movement**

- PAN: 340° (-170° to +170°); Fully proportional speed 0.01° to 60°/s
- TILT: 210° (-90° to +120°); Fully proportional speed 0.01° to 60°/s
- Preset: 255 positions, Speed 100°/s,
   0~5 Level Adjustable, Accuracy: 0.03°
- Picture Profile Preset
- Motionless Preset
- PTZ Trace Memory
- Quietness less than NC35
- ZDP (Zero Deviation Positioning),
   Position Deviation Self-Correction





# **Tally Light**

- 360 degree viewable tally light
- Removable when tally light is not needed



















# **SPECIFICATIONS**

Code  NDI XX.S, Standard AVC/HEVC  Oxmeral Image  Repet    Standard AVC/HEVC  AVC Surge served 17.9 byes 1574-058 to served  Avc of elisticity pasts  Code oxmeral  Final Avc of elisticity pasts  Final Avc of elisticity pasts  Final Avc of elisticity pasts  Final Code oxmeral  Final Avc Code oxmeral  Final		EVILOPANY
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Target State	Codec	,
CAUGE image STAROVS Is server   The presence	Camera Image	30X Full HD
Surger of defective peels	Image Maker	Sony Image Black
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Digital Zoon   12K   1		Enhanced optical zoom 30X
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Section Age of Views   3.4.5 (Winst) - 1.7 (Tebs);   Footal Lamph	3	
Fixed Length  An object distance  Fixed Length  Fixed State   Fixed Library (1998)   100 mm (1998)   100 mm (1998)   Fixed Library (1998)   100 mm (1998)   100 mm (1998)   Fixed Library (1998)   100 mm (1998)   100 mm (1998)   Fixed Speed		
Min. Injury and Contents		
Fig. 16 (Wilst) to F. 8. (Rep.) 15 stages  (ICR CIT) 400 bit (150 see, 50%, High Sensitivity Onl)  Stutier Speed  Speed Poors, Auto / March 200 bit (150 see, 50%, High Sensitivity Onl)  Stutier Speed  Speed Poors, Auto / March 200 bit (150 see, 50%, High Sensitivity Onl)  Speed Poors, Auto / March 200 bit (150 see, 50%, High Sensitivity Onl)  Auto (Annual For County Coun		
ICR-ROY, DOUGNOS IN (1786 Deep, SIP). High Sensitivity On Sen 22 states of Spot Foods, Auto / Manual / One Push Trigger Full Scan one publ trigger / Near Limit / Spot Light Andreace   Spot Foods, Auto / Manual / One Push Trigger Full Scan one publ trigger / Near Limit / Spot Light Andreace   Spot Foods, Auto / Manual / One Push Trigger Full Scan one publ trigger / Near Limit / Spot Light Andreace   Published Sensitivity (New York Sensitivity) (New York Sensitity) (New York Sensitivity) (New York Sensitivity) (New York Sensitivity) (New York Sens	,	
States   Speed   Spe	Min. Illumination	ICR-Off, 0.009 lx (1/30 sec, 50%, High Sensitivity On);
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Winder Basince	Shutter Speed	
One push Triger / Caution Auto / Sodium Vapor Larry Auto / Sodium Vapor Larry Outdoor Auto Esposuse Folkatus 6 Sault miles Setting / Sure Private / Private		
Eugoburn   Full Autor Gain Limit Setting / Stutist Pricety / Mental LEV compensation   Features   High Sensitivity, Beodigity Compensation   F.C., E.F.LP, Mirror, Day/Night   Work   High Sensitivity, Beodigity Compensation   F.C., E.F.LP, Mirror, Day/Night   Work   High Sensitivity, Beodigity Compensation   F.C., E.F.LP, Mirror, Day/Night   Work   F.C., E.F.LP, Mirror, Day/Night   F.C., E.F.LP, F.C.LP, F.C.	White Balance	
Features		
Wings   Wings   Wes   Super+   Ves		
Image Stabilizer		
Cobor Sain         Yes (15 step)           Corb Hue         Yes (15 step)           Garma         Standard/ Straigt garma           Octor Marin         Yes           Nose Reduction         On/Off (ever) is to 1.0ff, 6 step), 3D / 2D           SNR Ratio         260db           FLC         Yes           SNR State (Seption of Property Fore Masking)         Yes           FLC         Yes           Supply fore Masking         Yes           FLC         Yes           Supply fore Masking         Yes           Very Combined         Yes           Defot         Yes           May Sensitivity         Yes           Sow AE Response         Yes           Daylylight         Yes           Backlagt Companiation         Yes           Cover Latency Mode         Yes           Mechanicial         PAR Response         Yes           Mechanicial         PAR Movement         PAR Movement         PAR Movement           Till Every Core (epic) (epic		
Color Number   Colo	ŭ	, , , ,
Standard		
Cobr Marris Noise Reduction On/Oil (level 5 to 1 / Off, 6 seppe), 3D / 2D SNR Ratio HC File File File File File File File File		
Notes Reduction		
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FLC Privacy One Masking Vss Privacy Zone Masking Vss Privacy Zone Masking Vss Privacy Zone Masking Vss Schow AE Response Privacy Constitution Privacy Co		
E-Fip   Yes   Ye		****
Privacy Zone Masking		
Ves   Sow AE Response   Ves   Ves   Sow AE Response		
High Sensitivity  Yes  Day/Night  Personal Perso		
Day/Night Day/Ni		
Backlight Compensation  We same Mechanical  Pan Movement  Fan Wovement  Titt. 210" (-80" to +120"); Fully proportional 0.01" to 60"/s  Frest Position  Presser Position  Shutter, Gain, Aperture, Effect, Noise Reduction, Mirror, Gaman, Ex-COMP, Color Hue, Contrast etc.)  Motionless Presser  Presser Position  Shutter, Gain, Aperture, Effect, Noise Reduction, Mirror, Gaman, Ex-COMP, Color Hue, Contrast etc.)  Motionless Presser  Presser Position  Shutter, Gain, Aperture, Effect, Noise Reduction, Mirror, Gaman, Ex-COMP, Color Hue, Contrast etc.)  We St., 12  Cuise  Noise  Noise (15, 12)  VES, ONOFF  VES,	Slow AE Response	Yes
Low Latency Mode   Yes	Day/Night	Yes
Mechanical   Pant Movement   Pant 340" (-170" to +170"); Fully proportional 0.01" to 60"/s	Backlight Compensation	Yes
Pan Movement Tilt Speed proportional 0.01* to 60*/s Tell Movement Tilt Tilt Movement Tilt Movement Tilt Tilt Speed proportional to Zoon Tange Tilt Movement Tilt Tilt Speed proportional Town, White Balance, R-Cain/B-Gain, Auto Exposure, Bright, Ir Movement Tilt Tilt Speed proportional Tilt Movement, White Balance, R-Cain/B-Gain, Auto Exposure, Bright, Ir Movement Tilt Tilt Speed proportional Tilt Movement, White Balance, R-Cain/B-Gain, Auto Exposure, Bright, Ir Movement Tilt Tilt Speed proportional Tilt Movement, White Balance, R-Cain/B-Gain, Auto Exposure, Bright, Ir Movement Tilt Tilt Tilt Tilt Tilt Tilt Tilt Tilt	Low Latency Mode	Yes
Tilt. 101° (-90° to +120°). Fully proportional 0.01° to 60°)s  Speed Proportional Pan/Tilt Speed proportional 1 ozom range Preset Position Preset Position Preset Position Preset Position Preset Position Preset Profile Preset Preset Memory for image parameters: Backlight Compensation, White Balance, R-Gain/B-Gain, Auto Exposure, Bright, Ir Shutter, Gain, Aperture, Effect, Noise Reduction, Mirror Shutter, Gain, Aperture, Effect, Noise Reduction, Mirror Preset Preset Memory Preset Preset Me	Mechanical	
Tilt. To turn (1997) (1997) to +1207); Elby proportional 0.01* to 60*s Speed Proportional Preset Position Preset Preset Memory Picture Profile Preset Memory for image parameters. Backlight Compensation, White Balance, R-Gain/B-Gain, Auto Exposure, Bright, Ir Shutter, Gain, Aperture, Effect, Noise Reduction, Mirror, Gamma, Ex-COMP, Color Hue, Contrast etc.)  Motionless Preset Preset Memory Preset Preset Memor	Pan Movement	PAN: 340° (-170° to +170°); Fully proportional 0.01° to 60°/s
Preset Position Preset Memory	Tilt Movement	
Picture Profile Preset-Preset Memory for image parameters: Backlight Compensation, White Balance, R-Gain/R-Gain, Auto Exposure, Bright, In Shutter, Gain, Aperture, Effect, Noise Reduction, Mirror, Gamma, Ex-COMP, Color Hue, Contrast etc.)   Motionless Preset	Speed Proportional	Pan/Tilt Speed proportional to zoom range
Shutter, Gain, Aperture, Effect, Noise Reduction, Mirror, Garma, Ex-COMP, Color Hue, Contrast etc.)  Motionless Preset PTZ Trace Memory YES, 12 Cruise NC55(45/35) or less when operating speed is 60°/30°/15'/sec or less NC55(45/35) or less when operating speed is 60°/30°/15'/sec or less Home Position Yes FreeD Yes, FreeD protocol for ARVIX camera tracking via serial control/IP Position Deviation Correction Turning Radius PAN: Φ 400 mm TILT: Φ 480 mm Position Deviation Correction Turning Radius PAN: Φ 400 mm TILT: Φ 480 mm Position Deviation Correction Turning Radius PAN: Φ 400 mm TILT: Φ 480 mm Position Deviation for Waterproof and Dust Proof Finish Cuctor, IP67 compliant for Waterproof and Dust Proof Finish Cuctor Stass Salt resistant coatling Wind Load Durability, Non-Destructive and steady operation at 60 m/s or less Wiper Yes Heater Yes Defroster Yes Interface HDMI Video Output 3G-SDI, SMPTE424M /SMPTE292M /SMPTE 298M standards, 750 BNC x.2, SDI/PM for output to has OSD display SDI Optical Fiber Output 3G-SDI, SMPTE424M /SMPTE292M /SMPTE 298M standards, 750 BNC x.2, SDI/PM for output to has OSD display SDI Optical Fiber Output Qpical 12G-SDI (Module Excluded). Detachable Storenector: Dujek LC (optional via ST, LC or SMPTE) Laser Unit: Single-mode 1,310 mn DFB-LD transmitter and PIN receiver Complaint with MSA SFP+ Specification SFF-4640. Network LAN Port R,145X1, Standard 10M/100M/100M Base-TX Ethernet, LAN connector for IP control/video output/System FW Upgrade Internal/External Synch Input Power Connector: Display Supported Audio Output Power Connector: Display Supported Audio Output Red, Green Color, Front System Firmware Upgrade Power Connector Type Upgrade via IP for camera system MCU, Diver, FPGA and Encoder NPUT: DC24V-Pin connector	Preset Position	
Motionless Preset   YES, ON/OFF   PTZ Trace Memory   YES, 12   Cruise   YES, 4   Quietness   NC55(45/35) or less when operating speed is 60'/30"/15"/sec or less   Home Position   Yes   FreeD   Yes, FreeD protocol for AR/VR camera tracking via serial control/IP   Position Deviation Correction   Optical   Turning Radius   PAN: 0.400 mm TILT: 0.480 mm   Environmental   Outdoor, IP67 compliant for Waterproof and Dust Proof   Finish   C5 Class Salt resistant coating   Wind Load Durability   Wind Load Durability, Non-Destructive and steady operation at 60 m/s or less   Wiper   Yes   Heater   Yes   Defroster   FreeD   Yes, FreeD   HoMI video Output   Sold, SMPTE424M /SMPTE292M /SMPTE 296M standards, 750 BNC x.2. SDI/PM for output to has OSD display   SDI Video Output   Optical 12G-SDI (Module Excluded). Detachable slot, Connector: Duplex LC (optional via ST, LC or SMPTE)   Laser Unit: Single-mode 1,310mn DFB-LD transmitter and PIn receiver   Complaint with MSA SPF+ Specification SF-8402.   Network LAN Port   RJ45X1, Standard 10M/100M/100M Base-TX Ethernet, LAN connector for IP control/video output/System FW Upgrade   InternalExternal Synchronization (SPF)   Specification SFF-8402.   Network LAN Port   RJ45X1, Standard 10M/100M/100M Base-TX Ethernet, LAN connector for IP control/video output/System FW Upgrade   InternalExternal Synchronization (SMST)   Seps   Seps   Seps   InternalExternal Synchronization (SMST)   Seps   Seps   Seps   Seps   Seps   Seps   InternalExternal Synchronization (SMST)   Seps   Seps   Seps   Seps   Seps   Seps   Seps   InternalExternal Synchronization (SMST)   Seps	Preset Memory	Picture Profile Preset-Preset Memory for image parameters: Backlight Compensation, White Balance, R-Gain/B-Gain, Auto Exposure, Bright, Iris,
PTZ Trace Memony  Cruise  Cruise  (Step 1)  Quietness  NC55(45/35) or less when operating speed is 60°/30°/15°/sec or less  Home Position  Position  Yes  FreeD  Position Deviation Correction  Turning Radius  PAN: Ф 400 mm TILT: Ф 480 mm  Environmental  Environmental  Cyc Class Salt resistant coating  Wind Load Durability  Wind Load Durability  Wind Load Durability, Non-Destructive and steady operation at 60 m/s or less  Wiper  Yes  Defroster  Interface  HDMI video Output  3G-SDI, SMPTE424M /SMPTE292M /SMPTE 296M standards, 750 BNC x 2. SDI/PM for output to has OSD display  SDI Optical Fiber Output  Optical 12G-SDI (Module Excluded). Detachable stone control (BBS/Tri-level sync)  Laser Unit: Single-mode 1,310 mm DFB-LD transmitter and PIN receiver  Complaint with MSA SFP+ Specification SFF-8402.  Network LAN Port  RJ45X1, Standard 10M/100M/100M Base-TX Ethernet, LAN connector for 1P control/video output/system FW Upgrade  Audio Input  **Optical Fiber Output**  **Optical Fiber Output**  RJ45X1, Standard 10M/100M/100M Base-TX Ethernet, LAN connector for 1P control/video output/sudio output/system FW Upgrade  **Input signal level: O dBu, **Volume variable ange: -40 dB to +12 dB (can be changed in 1 dB steps in the menu)  **2 channels, XLR balanced input (Mint XLR + Hirose Connector)  **Audio Output**  **2 channels, XLR balanced input (Mint XLR + Hirose Connector)  **Audio Compression former  Audio Output, Sampling frequency: 48 kHz (synchronization bit rate: 24-bit (LPCM Audio Compression former)  **Audio Compression former  **Audio Compression former  **Optical Fiber Counter  **Audio Compression former  **Audio Courper Cornector Type  Upgrade via IP for camera system MCU, Driver, FPGA and Encoder  **Power Connector Type  Upgrade via IP for camera system MCU, Driver, FPGA and Encoder  INPUT: Optical FPGA and Encoder  INPUT: Optical FPGA and Encoder		
Cruise  Quietness  NC55(45/35) or less when operating speed is 60°/30°/15°/sec or less Home Position  Yes FreeD  Yes, FreeD protocol for ARIVR camera tracking via serial control/IP Position Deviation Correction  Turning Radius  PAN: Φ 400 mm TILT: Φ 480 mm  Environmental Quidoor, IP67 compliant for Waterproof and Dust Proof Finish  C5 Class Salt resistant coating Wind Load Durability Wind Load Durability Wind Load Durability, Non-Destructive and steady operation at 60 m/s or less Wijper  Yes Heater  Yes Defroster  Interface HDMI video Output  SDI Video Output  SDI Video Output  3G-SDI, SMPTE424M /SMPTE292M /SMPTE 296M standards, 750 BNC x 2. SDI/PM for output to has OSD display SDI Optical Fiber Output  Qptical 12G-SDI (Module Excluded). Detachable slot, Connector: Duplex LC (optional via ST, LC or SMPTE)  Laser Unit: Single-mode 1,310mm DFB-1D transmitter and PIN receiver Complaint with MSA SFP+ Specification SFF-8402.  Network LAN Port  Synchronization System  Genilock, BNC connector, BBS (Black Burst Sync), tri-level sync supported  Audio Input  1 Input signal level: 0 dBu, v Volume variable range of BB (Black Burst Sync), tri-level sync supported  1 Input signal level: 0 dBu, v Volume variable range of BB (Gan be changed in 1 dB steps in the menu)  Audio Output  Audio Output  Audio Output  Red, Green Color, Front System Firmware Upgrade  Upgrade via IP for camera system MCU, Driver, FPGA and Encoder  Newer Connector Type  Upgrade via IP for camera system MCU, Driver, FPGA and Encoder  Newer Connector Type  Upgrade via IP for camera system MCU, Driver, FPGA and Encoder  Newer Connector Type		'
Quietness         NC55(45/35) or less when operating speed is 60°/30°/15°/sec or less           Home Position         Yes           FreeD         Yes, FreeD protocol for AR/VR camera tracking via serial control/IP           Position Deviation Correction         Optical           Turning Radius         PAN: Φ 400 mm TILT: Φ 480 mm           Environmental         Outdoor, IP67 compliant for Waterproof and Dust Proof           Finish         C5 Class Salt resistant coating           Wind Load Durability         Wind Load Durability, Non-Destructive and steady operation at 60 m/s or less           Wiper         Yes           Heater         Yes           Defroster         Yes           Interface         HDMI 2.0 Type A           SDI Video Output         3G-SDI, SMPTE424M /SMPTE292M /SMPTE 296M standards, 75Ω BNC x 2. SDI/PM for output to has OSD display           SDI Video Output         3G-SDI, SMPTE424M /SMPTE292M /SMPTE 296M standards, 75Ω BNC x 2. SDI/PM for output to has OSD display           SDI Optical Fiber Output         Optical 12G-SDI (Module Excluded). Detachable slot, Connector. Duplex LC (optional via ST, LC or SMPTE)           Laser Unit: Single-mode 1,310m DFB-LD transmitter and PIN receiver         Complaint with MSA SFP+ Specification SFF-8402.           Network LAN Port         RJ45X1, Standard 10M/100M/100M Base-TX Ethernet, LAN connector for IP control/video output/System FW Upgrade		
Home Position   Yes   FreeD   Yes, FreeD protocol for AR/VR camera tracking via serial control/IP		
FreeD Yes, FreeD protocol for AR/VR camera tracking via serial control/IP Position Deviation Correction  Optical  Turning Radius  PAN: 04 400 mm TILT: 0480 mm  Environmental Outdoor, IP67 compliant for Waterproof and Dust Proof Finish Osc Class Salt resistant coating Wind Load Durability Wind Load Durability, Non-Destructive and steady operation at 60 m/s or less Wiper Yes Heater Yes  Defroster Yes  Interface  HDMI video Output 3G-SDI, SMPTE424M /SMPTE292M /SMPTE 296M standards, 750 BNC x 2. SDI/PM for output to has OSD display  SDI Video Output 3G-SDI, SMPTE424M /SMPTE292M /SMPTE 296M standards, 750 BNC x 2. SDI/PM for output to has OSD display  SDI Optical Fiber Output Optical 12G-SDI (Module Excluded). Detachable slot, Connector: Duplex LC (optional via ST, LC or SMPTE)  Laser Unit: Single-mode 1,310nm DF8-LD transmitter and PIN receiver Complaint with MSA SFP+ Specification SFF-8402.  Network LAN Port RJ45X1, Standard 10M/100M Base-TX Ethernet, LAN connector for IP control/video output/system FW Upgrade  Synchronization System RADIA (BNC connector, BBS (Black Burst Sync), tri-level sync supported  Audio Input Genlock, BNC connector, Embedded with main HDMI, 24bit Stereo, Embedded with SDI, 24bit St		
Position Deviation Correction   Optical		
Turning Radius  PAN: Φ 400 mm TILT: Φ 480 mm  Coutdoor, IP67 compliant for Waterproof and Dust Proof Finish  C5 Class Salt resistant coating Wind Load Durability Wind Load Durability Wind Load Durability, Non-Destructive and steady operation at 60 m/s or less Wiper Yes  Heater Yes  Defroster PDMI video Output  SDI Video Output  SDI Video Output  SDI Video Output  Optical Fiber Output  Complaint with MSA SFP+ Specification SFF-8402.  Network LAN Port Rystem Synchronization System  External Sync Input  Audio Input  Genlock, BNC connector, BBS (Black Burst Sync), tri-level sync)  Linput signal level: O dBu, • Volume variable range: -40 dB to +12 dB (can be changed in 1 dB steps in the menu)  • 2 channels, XLR balanced input (Mini XLR - Hirose Connector)  Finsula Power Connector Type  INPUT: DC24V,Pin connector		
Environmental Outdoor, IP67 compliant for Waterproof and Dust Proof Finish C5 Class Salt resistant coating Wind Load Durability Wind Load Durability, Non-Destructive and steady operation at 60 m/s or less Wiper Yes Heater Yes Defroster Yes Interface HDMI Video Output SG-SDI, SMPTE424M /SMPTE292M /SMPTE 296M standards, 750 BNC x 2, SDI/PM for output to has OSD display SDI Video Output Optical Fiber Output Optical 12G-SDI (Module Excluded). Detachable slot, Connector: Duplex LC (optional via ST, LC or SMPTE) Laser Unit: Single-mode 1,310 mm DFB-LD transmitter and PIN receiver Complaint with MSA SFP+ Specification SFF-8402. Network LAN Port RJ45X1, Standard 10M/100M/1000M Base-TX Ethernet, LAN connector for IP control/video output/system FW Upgrade Synchronization System Internal/External synchronization (BBS/Tri-level sync) External Sync Input Genlock, BNC connector, BNS (Black Burst Sync), tri-level sync tri-level sync on the menu) Audio Output*  • 2 channels, KLR balanced input (Mini XLR - Hirose Connector) • Input signal level: 0 dBu, • Volume variable range: -40 dB to +12 dB (can be changed in 1 dB steps in the menu)  • 2 channels, Superimposed over SDI & HDMI output, Sampling frequency: 48 kHz (synchronization of video) • Quantization bit rate: 24-bit (LPCM Audio compression format (IP): G.726, AAC-LC (High quality)  Tally Light Red, Green Color, Front  Power Connector Type		Ориса
Environmental   Outdoor, IP67 compliant for Waterproof and Dust Proof	Turning Naulus	PAN: ф 400 mm Til T: ф 480 mm
Finish  C5 Class Salt resistant coating Wind Load Durability Wind Load Durability Wind Load Durability, Non-Destructive and steady operation at 60 m/s or less Wiper Yes Heater Yes Defroster HDMI video Output FIDMI video Output SG-SDI, SMPTE424M /SMPTE292M /SMPTE 296M standards, 750 BNC x 2. SDI/PM for output to has OSD display SDI Video Output Optical Fiber Output Optical 12G-SDI (Module Excluded). Detachable slot, Connector: Duplex LC (optional via ST, LC or SMPTE) Laser Unit: Single-mode 1,310nm DFB-LD transmitter and PIN receiver Complaint with MSA SFP+ Specification SFF-8402. Network LAN Port RJ45X1, Standard 10M/100M/100M Base-TX Ethernet, LAN connector for IP control/video output/audio output/System FW Upgrade Synchronization System Internal/External Synchronization (BBS/Tri-level sync) Genlock, BNC connector, BBS (Black Burst Sync), tri-level sync supported Audio Input  Genlock, BNC connector, BBS (Black Burst Sync), tri-level sync supported  2 channels, XLR balanced input (Mini XLR - Hirose Connector)  • Input signal level: 0 dBu, • Volume variable range: -40 dB to +12 dB (can be changed in 1 dB steps in the menu)  • 2 channels, XLR balanced input (Mini XLR - Hirose Connector)  • Input signal level: 0 dBu, • Volume variable range: -40 dB to +12 dB (can be changed in 1 dB steps in the menu)  • 2 channels, XLR balanced input (Mini XLR - Hirose Connector)  • A channels, superimposed over SDI & HDMI output, Sampling frequency: 48 kHz (synchronized to video) • Quantization bit rate: 24-bit (LPCM Audio compression format (IP): G.726, AAC-LC (High quality)  Red, Green Color, Front System Firmware Upgrade  Power Connector Type  INPUT: DC24V,Pin connector	Environmental	
Wind Load Durability         Wind Load Durability, Non-Destructive and steady operation at 60 m/s or less           Wiper         Yes           Heater         Yes           Defroster         Yes           Interface         HDMI 2.0 Type A           SDI Video Output         3G-SDI, SMPTE424M /SMPTE292M /SMPTE 296M standards, 75Ω BNC x 2. SDI/PM for output to has OSD display           SDI Optical Fiber Output         Optical 12G-SDI (Module Excluded). Detachable slot, Connector: Duplex LC (optional via ST, LC or SMPTE)           Laser Unit: Single-mode 1,310nm DFB-LD transmitter and PIN receiver Complaint with MSA SFP+ Specification SFF-8402.           Network LAN Port         RJ45X1, Standard 10M/100M/100M/100M Base-TX Ethernet, LAN connector for IP control/video output/system FW Upgrade           Synchronization System         Internal External synchronization (BBS/Tri-level sync)           External Sync Input         Genlock, BNC connector, BBS (Black Burst Sync), tri-level sync supported           Audio Input         • 2 channels, XLR balanced input (Mini XLR - Hirose Connector)           Audio Output*         • 1nput signal level: of dBu, *Volume variable range: -40 dB to +12 dB (can be changed in 1 dB steps in the menu)           Audio Output*         • 2 channels, XLR balanced input (Mini XLR - Hirose Connector): Embedded with main HDMI, 24bit Stereo, Embedded with SDI, 24bit Stereo           • 4 channels, superimposed over SDI & HDMI output, Sampling frequency: 48 kHz (synchronized to video) • Quantization		
Wiper   Yes   Yes     Defroster   Yes     Defroster   Yes     Interface     HDMI Video Output   3G-SDI, SMPTE424M /SMPTE292M /SMPTE 296M standards, 75Ω BNC x 2, SDI/PM for output to has OSD display     SDI Video Output   Optical 12G-SDI (Module Excluded). Detachable slot, Connector: Duplex LC (optional via ST, LC or SMPTE)     Laser Unit: Single-mode 1,310nm DFB-LD transmitter and PIN receiver     Complaint with MSA SFP+ Specification SFF-8402.     Network LAN Port   RJ45X1, Standard 10M/100M/1000M Base-TX Ethernet, LAN connector for IP control/video output/audio output/System FW Upgrade     Synchronization System   Internal/External synchronization (BBS/Tri-level sync)     External Sync Input   Genlock, BNC connector, BBS (Black Burst Sync), tri-level sync supported     Audio Input   • 2 channels, XLR balanced input (Mini XLR - Hirose Connector)     • Input signal level: 0 dBu, • Volume variable range: -40 dB to +12 dB (can be changed in 1 dB steps in the menu)     • 2 channels, XLR balanced input (Mini XLR - Hirose Connector); Embedded with main HDMI, 24bit Stereo, Embedded with SDI, 24bit Stereo     • 4 channels, superimposed over SDI & HDMI output, Sampling frequency: 48 kHz (synchronized to video) • Quantization bit rate: 24-bit (LPCM Audio compression format (IP): G.726, AAC-LC (High quality)     Tally Light   Red, Green Color, Front   System Firmware Upgrade   Upgrade via IP for camera system MCU, Driver, FPGA and Encoder     Power Connector Type   INPUT: DC24V, Pin connector		G G G G G G G G G G G G G G G G G G G
Heater   Yes   Defroster   Yes		
Defroster   Yes		
Interface  HDMI Video Output  SDI Video Output  3G-SDI, SMPTE424M /SMPTE292M /SMPTE 296M standards, 75Ω BNC x 2, SDI/PM for output to has OSD display  Optical Fiber Output  Optical 12G-SDI (Module Excluded). Detachable slot, Connector: Duplex LC (optional via ST, LC or SMPTE)  Laser Unit: Single-mode 1,310nm DFB-LD transmitter and PIN receiver  Complaint with MSA SFP+ Specification SFF-8402.  Network LAN Port  Synchronization System  RJ45X1, Standard 10M/100M/100M Base-TX Ethernet, LAN connector for IP control/video output/audio output/System FW Upgrade  Internal/External synchronization (BBS/Tri-level sync)  External Sync Input  Genlock, BNC connector, BBS (Black Burst Sync), tri-level sync supported  Audio Input  *2 channels, XLR balanced input (Mini XLR - Hirose Connector)  *Input signal level: 0 dBu, *Volume variable range: -40 dB to +12 dB (can be changed in 1 dB steps in the menu)  *2 channels, XLR balanced input (Mini XLR - Hirose Connector); Embedded with main HDMI, 24bit Stereo, Embedded with SDI, 24bit Stereo  *4 channels, superimposed over SDI & HDMI output, Sampling frequency: 48 kHz (synchronization bit rate: 24-bit (LPCM Audio compression format (IP): G.726, AAC-LC (High quality)  Tally Light  Red, Green Color, Front  System Firmware Upgrade  Power Connector Type  INPUT: DC24V,Pin connector		
HDMI Video Output  SDI Video Output  3G-SDI, SMPTE424M /SMPTE292M /SMPTE 296M standards, 75Ω BNC x 2, SDI/PM for output to has OSD display  SDI Optical Fiber Output  Optical 12G-SDI (Module Excluded). Detachable slot, Connector: Duplex LC (optional via ST, LC or SMPTE)  Laser Unit: Single-mode 1,310nm DFB-LD transmitter and PIN receiver  Complaint with MSA SFP+ Specification SFF-8402.  Network LAN Port  RJ45X1, Standard 10M/100M/1000M Base-TX Ethernet, LAN connector for IP control/video output/audio output/System FW Upgrade  Synchronization System  External Sync Input  Genlock, BNC connector, BBS (Black Burst Sync), tri-level sync supported  Audio Input  • 2 channels, XLR balanced input (Mini XLR - Hirose Connector)  • Input signal level: 0 dBu, • Volume variable range: -40 dB to +12 dB (can be changed in 1 dB steps in the menu)  • 2 channels, XLR balanced input (Mini XLR - Hirose Connector)  • Input signal level: 0 dBu, • Volume variable range: -40 dB to +12 dB (can be changed in 1 dB steps in the menu)  • 2 channels, XLR balanced input (Mini XLR - Hirose Connector); Embedded with main HDMI, 24bit Stereo, Embedded with SDI, 24bit Stereo  • 4 channels, superimposed over SDI & HDMI output, Sampling frequency: 48 kHz (synchronized to video) • Quantization bit rate: 24-bit (LPCM Audio compression format (IP): G.726, AAC-LC (High quality)  Tally Light  Red, Green Color, Front  System Firmware Upgrade  Power Connector Type  INPUT: DC24V,Pin connector		
SDI Video Output  3G-SDI, SMPTE424M /SMPTE292M /SMPTE 296M standards, 75Ω BNC x 2, SDI/PM for output to has OSD display  Optical Fiber Output  Optical 12G-SDI (Module Excluded). Detachable slot, Connector: Duplex LC (optional via ST, LC or SMPTE)  Laser Unit: Single-mode 1,310nm DFB-LD transmitter and PIN receiver  Complaint with MSA SFP+ Specification SFF-8402.  Network LAN Port  RJ45X1, Standard 10M/100M/1000M Base-TX Ethernet, LAN connector for IP control/video output/audio output/System FW Upgrade  Synchronization System  Internal/External synchronization (BBS/Tri-level sync)  External Sync Input  Genlock, BNC connector, BBS (Black Burst Sync), tri-level sync supported  Audio Input  • 1 channels, XLR balanced input (Mini XLR - Hirose Connector)  • Input signal level: 0 dBu, • Volume variable range: -40 dB to +12 dB (can be changed in 1 dB steps in the menu)  Audio Output*  • 2 channels, XLR balanced input (Mini XLR - Hirose Connector); Embedded with main HDMI, 24bit Stereo, Embedded with SDI, 24bit Stereo  • 4 channels, superimposed over SDI & HDMI output, Sampling frequency: 48 kHz (synchronized to video) • Quantization bit rate: 24-bit (LPCM Audio compression format (IP): G.726, AAC-LC (High quality)  Tally Light  Red, Green Color, Front  System Firmware Upgrade  Power Connector Type  INPUT: DC24V,Pin connector		HDMI 2.0 Type A
SDI Optical Fiber Output  Optical 12G-SDI (Module Excluded). Detachable slot, Connector: Duplex LC (optional via ST, LC or SMPTE)  Laser Unit: Single-mode 1,310nm DFB-LD transmitter and PIN receiver  Complaint with MSA SFP+ Specification SFF-8402.  Network LAN Port  RJ45X1, Standard 10M/100M/1000M Base-TX Ethernet, LAN connector for IP control/video output/audio output/System FW Upgrade  Synchronization System  Internal/External synchronization (BBS/Tri-level sync)  External Sync Input  Genlock, BNC connector, BBS (Black Burst Sync), tri-level sync supported  4 udio Input  - 2 channels, XLR balanced input (Mini XLR - Hirose Connector)  - Input signal level: 0 dBu, • Volume variable range: -40 dB to +12 dB (can be changed in 1 dB steps in the menu)  4 channels, XLR balanced input (Mini XLR - Hirose Connector); Embedded with main HDMI, 24bit Stereo, Embedded with SDI, 24bit Stereo  • 4 channels, superimposed over SDI & HDMI output, Sampling frequency: 48 kHz (synchronized to video) • Quantization bit rate: 24-bit (LPCM Audio compression format (IP): G.726, AAC-LC (High quality)  Tally Light  Red, Green Color, Front  System Firmware Upgrade  Power Connector Type  INPUT: DC24V,Pin connector		
Laser Unit: Single-mode 1,310nm DFB-LD transmitter and PIN receiver Complaint with MSA SFP+ Specification SFF-8402.  Network LAN Port RJ45X1, Standard 10M/100M/1000M Base-TX Ethernet, LAN connector for IP control/video output/audio output/System FW Upgrade Synchronization System Internal/External synchronization (BBS/Tri-level sync)  External Sync Input Genlock, BNC connector, BBS (Black Burst Sync), tri-level sync supported  Audio Input • 2 channels, XLR balanced input (Mini XLR - Hirose Connector) • Input signal level: 0 dBu, • Volume variable range: –40 dB to +12 dB (can be changed in 1 dB steps in the menu)  Audio Output* • 2 channels, XLR balanced input (Mini XLR - Hirose Connector); Embedded with main HDMI, 24bit Stereo, Embedded with SDI, 24bit Stereo • 4 channels, superimposed over SDI & HDMI output, Sampling frequency: 48 kHz (synchronized to video) • Quantization bit rate: 24-bit (LPCM Audio compression format (IP): G.726, AAC-LC (High quality)  Tally Light Red, Green Color, Front System Firmware Upgrade  Power Connector Type  INPUT: DC24V,Pin connector	'	
Complaint with MSA SFP+ Specification SFF-8402.  Network LAN Port RJ45X1, Standard 10M/100M/1000M Base-TX Ethernet, LAN connector for IP control/video output/audio output/System FW Upgrade  Synchronization System Internal/External synchronization (BBS/Tri-level sync)  External Sync Input Genlock, BNC connector, BBS (Black Burst Sync), tri-level sync supported  Audio Input • 2 channels, XLR balanced input (Mini XLR - Hirose Connector)  • Input signal level: 0 dBu, • Volume variable range: –40 dB to +12 dB (can be changed in 1 dB steps in the menu)  Audio Output*  • 2 channels, XLR balanced input (Mini XLR - Hirose Connector); Embedded with main HDMI, 24bit Stereo, Embedded with SDI, 24bit Stereo  • 4 channels, superimposed over SDI & HDMI output, Sampling frequency: 48 kHz (synchronized to video) • Quantization bit rate: 24-bit (LPCM Audio compression format (IP): G.726, AAC-LC (High quality)  Tally Light Red, Green Color, Front  System Firmware Upgrade Upgrade Via IP for camera system MCU, Driver, FPGA and Encoder  Power Connector Type INPUT: DC24V,Pin connector		
Network LAN Port  Synchronization System  External Sync Input  Audio Input  Audio Output*  Audio		
Synchronization System  Internal/External synchronization (BBS/Tri-level sync)  External Sync Input  Genlock, BNC connector, BBS (Black Burst Sync), tri-level sync supported  • 2 channels, XLR balanced input (Mini XLR - Hirose Connector)  • Input signal level: 0 dBu, • Volume variable range: -40 dB to +12 dB (can be changed in 1 dB steps in the menu)  Audio Output*  • 2 channels, XLR balanced input (Mini XLR - Hirose Connector); Embedded with main HDMI, 24bit Stereo, Embedded with SDI, 24bit Stereo  • 4 channels, superimposed over SDI & HDMI output, Sampling frequency: 48 kHz (synchronized to video) • Quantization bit rate: 24-bit (LPCM Audio compression format (IP): G.726, AAC-LC (High quality)  Tally Light  Red, Green Color, Front  System Firmware Upgrade  Power Connector Type  INPUT: DC24V,Pin connector	Network LAN Port	
Audio Input  • 2 channels, XLR balanced input (Mini XLR - Hirose Connector)  • Input signal level: 0 dBu, • Volume variable range: -40 dB to +12 dB (can be changed in 1 dB steps in the menu)  Audio Output*  • 2 channels, XLR balanced input (Mini XLR - Hirose Connector); Embedded with main HDMI, 24bit Stereo, Embedded with SDI, 24bit Stereo  • 4 channels, superimposed over SDI & HDMI output, Sampling frequency: 48 kHz (synchronized to video) • Quantization bit rate: 24-bit (LPCM Audio compression format (IP): G.726, AAC-LC (High quality)  Tally Light  Red, Green Color, Front  System Firmware Upgrade  Power Connector Type  INPUT: DC24V,Pin connector		
Input signal level: 0 dBu, • Volume variable range: -40 dB to +12 dB (can be changed in 1 dB steps in the menu)  Audio Output*     • 2 channels, XLR balanced input (Mini XLR - Hirose Connector); Embedded with main HDMI, 24bit Stereo, Embedded with SDI, 24bit Stereo • 4 channels, superimposed over SDI & HDMI output, Sampling frequency: 48 kHz (synchronized to video) • Quantization bit rate: 24-bit (LPCM Audio compression format (IP): G.726, AAC-LC (High quality)  Tally Light Red, Green Color, Front  System Firmware Upgrade  Power Connector Type  INPUT: DC24V,Pin connector	External Sync Input	
Audio Output*  • 2 channels, XLR balanced input (Mini XLR - Hirose Connector); Embedded with main HDMI, 24bit Stereo, Embedded with SDI, 24bit Stereo • 4 channels, superimposed over SDI & HDMI output, Sampling frequency: 48 kHz (synchronized to video) • Quantization bit rate: 24-bit (LPCM Audio compression format (IP): G.726, AAC-LC (High quality)  Tally Light  Red, Green Color, Front  System Firmware Upgrade  Upgrade via IP for camera system MCU, Driver, FPGA and Encoder  Power Connector Type  INPUT: DC24V,Pin connector	Audio Input	
• 4 channels, superimposed over SDI & HDMI output, Sampling frequency: 48 kHz (synchronized to video) • Quantization bit rate: 24-bit (LPCM Audio compression format (IP): G.726, AAC-LC (High quality)  Tally Light Red, Green Color, Front  System Firmware Upgrade Upgrade via IP for camera system MCU, Driver, FPGA and Encoder  Power Connector Type INPUT: DC24V,Pin connector		
Audio compression format (IP): G.726, AAC-LC (High quality)  Tally Light Red, Green Color, Front  System Firmware Upgrade Upgrade via IP for camera system MCU, Driver, FPGA and Encoder  Power Connector Type INPUT: DC24V,Pin connector	Audio Output*	• 2 channels, XLR balanced input (Mini XLR - Hirose Connector); Embedded with main HDMI, 24bit Stereo, Embedded with SDI, 24bit Stereo
Tally Light Red, Green Color, Front System Firmware Upgrade Upgrade via IP for camera system MCU, Driver, FPGA and Encoder Power Connector Type INPUT: DC24V,Pin connector		• 4 channels, superimposed over SDI & HDMI output, Sampling frequency: 48 kHz (synchronized to video) • Quantization bit rate: 24-bit (LPCM) •
System Firmware Upgrade Upgrade via IP for camera system MCU, Driver, FPGA and Encoder Power Connector Type INPUT: DC24V,Pin connector		
Power Connector Type INPUT: DC24V,Pin connector	, ,	
	, , ,	
INDIT: P M5 Doe++ (IEEE902 3bt)	Power Connector Type	
		INPUT: RJ45, P0E++ (IEEE802.3bt)
OUTPUT: 12VDC, Pin connector  Control Interface  P. 14EYA, P.S.423, P. 14EYA, ID. Control, ID. Romoto, Control	Control Interfers	
Control Interface RJ45X1-RS422, RJ45X1-IP Control, IR Remote Control  Control Protocol  Social VISCA RELICATION DE VISCA OVER ID ANVIE		
Control Protocol Serial: VISCA, PELCO P/D, FreeD; IP: VISCA Over IP, ONVIF	Control Frotocol	Seliai. VISCA, PELCO P/D, FIEED; IP: VISCA OVEF IP, UNVIF

# **SPECIFICATIONS**

Model Number	EXU230NX
Codec	NDI HX3, Standard AVC/HEVC
HDMI Video Signal System	,
HDMI Video Format	1920 x 1080p/59.94/60/50/29.97/30/25/23.98/24
FIDIVII VIGEO FOITIAL	1920 x 1080i/59.94/60/50
	1280 x 720p/59.94/60/50
Color Precision	1260 K 720µ39.94/00/30 12bit(HDMI), YUV4:2:2, YUV4:2:0
Color Space	YUV. RGB
OSD Menu Display	Yes, with image insert
On-Screen Title	Yes, video embedded On-Screen title character generator
SDI Signal Format	1 tot, tide sinedada en euron alle sindada generale.
	4000 4000 - 150 0 4100 150 00 07100 155 100 00 104
SDI Video Format	1920 x 1080p/59.94/60/50/29.97/30/25/23.98/24
	1920 x 1080i/59.94/60/50
Color Provision	1280 x 720p/59.94/60/50
Color Precision	10bit(SDI), YUV 4:2:2
Color Space Standard	YUV
Standard	SMPTE 292M , SMPTE 296M (1.5Gb/s), SMPTE 424M, SMPTE 274M, SMPTE 425-A (3Gb/s), SMPTE 2081(6Gb/s), SMPTE 2082-1 (12Gb/s)
True Dual Output	standard / 75 Ω (BNC x 1), With SMPTE352 SDI Metadata Supported  HDMI and SDI signal can be output with different format
OSD Menu Display	Yes
On-Screen Title	Yes, video embedded On-Screen title character generator
	Tes, video embedded on-screen title character generator
Network	
Video Compression (Codec)	NDI HX3, MJPEG,H.264/H.265 by SoC
IP Resolution/Frame Rate	1920x1080p60/50/30/25, 1280x720p60/50
True Dual Output	IP, HDMI, and SDI signal can be set with different format
IP Protocols	TCP/IP, ICMP, ARP, RTP, UDP, HTTP, DNS, DHCP, FTP, NTP, SRT, NDI
Application Protocols	RTMP(S)、RTSP、RTSP Encryption、SRT、MP2TS over UDP (Unicast, Multicast), NDI
Multi-stream	3 stream
Audio Compression	AAC-LC,G.711A/G.711U
OSD	Broadband Audio Encoding(Duplex Communicate Supported, Audio/Video synchronization)  Customized OSD
Compatible Integration	ONVIF2.4 (Profile S), VISCA Over IP
Bandwidth ( results may vary	50-60Mbps, 1080p60
depending on network configuration	30-00Hillps, 1000p00
Latency (Overall latency may	NDI HX3 certified, <100ms
increase depending on network	NOT HAS CERTIFIED, CTOURS
configurations)	
Browser Support	Cross Browser Compatibility - HTML5 support for Microsoft Edge, Google Chrome, Firefox, and Safari
General	Close Eromoti Compatismy Times deposit for microsoft Eugo, Cooling Cities, Timoto, and Catalin
Operating Temperature	-40 °C to 60 °C (-40°F to 140°F), (PoE is not suggested to be used and camera preheating automatically will be processed when -15°C (5°F) or less)
Operating remperature	-40 C to 60 C (-40 F to 140 F), (FDE is not suggested to be used and camera preneating automatically will be processed when -15 C (5 F) or less)
Operating Humidity	100% Suitable for Use (no condensation)
Power Input	DC24V, PoE++(Compatible with IEEE802.3bt, Type 4 Class8)
l ower input	Suggest that not to use POE when environment temperature is -10°C lower
Power Consumption	Min: 30W(Static state with no movement); Max: 60W (Fully loaded operation with heater on)
Installation Method Mount	Stand-alone (Upright) or suspended (Pendent), • To ensure safety, the unit must be secured using the mount bracket supplied.  Ceiling mount, Wall mount, Heavy duty tripod
Handle	Built-in for portable use application
Wiper	οιικ πτοι ροπανίο ασο αργιισατοπ
Size of Tripod Screw Hole	1 x 3/8", 1 x 1/4" + secure lock point
Body Color	Dark Gray
Dimension-Camera	PAN: Ф 400 mm TILT: Ф 480 mm
Weight	10kg (22lb)
Accessories Included	IR Controllerx1, Secure Chain Lock and screwx1, Power Adaptor x1, Seal ringx12, Quick install panel bolt x4, IP67 Tail Cover x1, Rainwater Cover x1
710000001163 ITIOIUUGU	TO COMMUNICATI, GOOGLO CHART LOOK AND SOLOMATI, TOWN MACHINIATI, GOOD HINGATE, QUICK HISTORIA PAREL DOIL AT, IT OF TAIL GOVER AT, IN CASH

# **ORDER INFORMATION**

• EXU230NX (Full HD, 30X, NDI HX3, Dark Grey)

#### Items marked \* are optional to purchase



VCC-RC-2 IR Remote Controller



P36-4 36VDC 4A Power Adapter



EG40N \*NDI Decoder



C-PMSB
\*Pendant Mount for Drop Ceiling
/Hard Surface Ceiling



ES-WM
\*Wall Mount Bracket



C-PMBA
\*Pendant Mount Base Mount Adaptor



QR-BM \*Base Mount



VAP-10
\*Vibration Absorb Plate Kits



BL-PP97 \*97W POE POWER INJECTOR

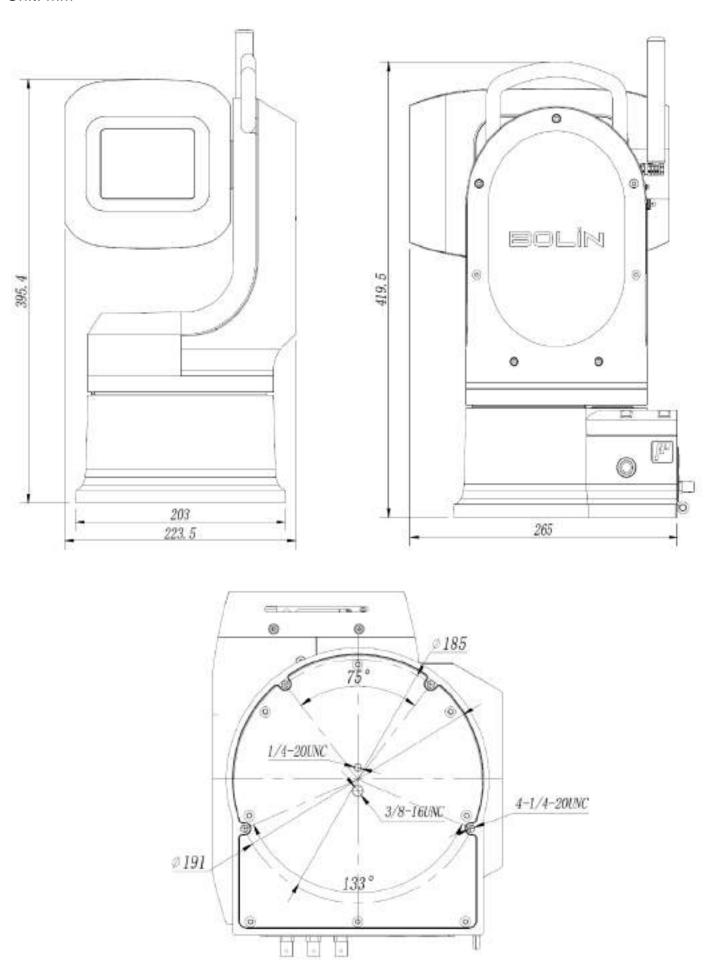


BLA-10 \*LEMO connector 10Pin Mini to XLR L/R In/Out



B-OSM-12 \*Optical SFP Module Transceiver 12G-SDI

Unit: mm



 $All\ models\ and\ specifications\ are\ subject\ to\ change\ without\ notice.$   $All\ brand\ names\ and\ registered\ trademarks\ are\ the\ property\ of\ their\ respective\ owners.$