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BROADCAST-GRADE PTZ

OWLx20 Pro

Data-sheet

True 4K at 60 fps, a 20× optical zoom and AI tracking in one robotic camera, built for broadcast, live events and virtual production.



4K60	20×	4/3"	12G	AI	NDI
3840×2160 UHD	Optical zoom	20 MP CMOS	SDI + HDMI 2.0	Auto tracking	HX3 · SRT · PoE++

Large 4/3" sensor. A 20 MP CMOS and a new image engine deliver clean, detailed 4K at 60 fps, from bright stages to dim venues.

20× optical zoom. A 9.79–186.5 mm lens goes from a 71° wide shot to tight close-ups, plus 16× digital zoom.

Stable images. Electronic stabilisation as standard, optical OIS as an option, and a precise high-torque pan-tilt head.

Every interface at once. 12G-SDI, 3G-SDI, HDMI 2.0, USB 3.0 and IP simultaneously, with genlock, timecode and XLR audio.

AI tracking. ReID and face recognition follow the presenter by body shape, posture and clothing, even in busy scenes.

Virtual studio ready. Free-D output sends pan, tilt, zoom, focus and iris data to AR and virtual set engines.

Built-in ND filter. Three steps (1/4, 1/16, 1/64) selected automatically to keep exposure right in strong light.

IP workflows. NDI|HX3, SRT, RTMP(S), RTSP, Dante AV-H and Onvif. Front and rear tally keep the crew informed.

Video Output

1× 12G-SDI
1× 3G-SDI
1× HDMI 2.0
1× USB 3.0 (UVC)

Network

1× RJ45 Gigabit
PoE++ powered
NDI|HX3 / SRT
H.264 / H.265

Audio & Sync

2× XLR mic in
Line in / out 3.5 mm
Genlock (BNC)
Timecode (BNC)

Control

VISCA over IP
RS232 / RS422 / RS485
Pelco-D / Pelco-P
Free-D

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Specifications

OWLX20 PRO · 4K PTZ CAMERA

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CAMERA

Video format HDMI / 12G-SDI	2160p 60/59.94/50/30/29.97/25/24/23.98 1080p 60/59.94/50/30/29.97/25/24/23.98 1080i 60/59.94/50 · 720p 60/59.94
Video format 3G-SDI	1080p, 1080i and 720p (same rates as above)
Sensor	4/3" CMOS, 20 MP effective
Scanning mode	Progressive
Lens	20× optical, f 9.79–186.5 mm, F2.8–F4.5
Digital zoom	16×
Min. illumination	0.5 lux (F1.8, AGC on)
Shutter	1/30 s – 1/10000 s
ND filter	Built-in: Off, 1/4, 1/16, 1/64
Stabilisation	EIS standard, OIS optional
White balance	Auto, Indoor, Outdoor, One Push, Manual, VAR (colour temp.)
Backlight comp.	Supported
Noise reduction	3D digital noise reduction
Video S/N	≥ 55 dB
Horizontal FOV	71° – 4.05°
Vertical FOV	39.6° – 2.2°
Pan / tilt range	±172° / – 30° to +120°
Pan speed	0.1° – 80°/s
Tilt speed	0.1° – 60°/s
Image flip & freeze	Supported
Presets	255, accuracy 0.1°
AI tracking	ReID and FaceID subject tracking
Virtual studio	Free-D (pan/tilt/zoom/focus/iris)

USB

Operating systems	Windows 7/8/10, macOS, Linux, Android
Colour / compression	YUY2, H.264, MJPEG, H.265
Video format	YUY2 up to 1440p30; H.264, H.265 and MJPEG up to 2160p60
UVC	UVC 1.1, UVC PTZ control, USB audio

INPUT / OUTPUT

HD output	1× HDMI 2.0 1× 12G-SDI, BNC 75 Ω, SMPTE 2082-1 1× 3G-SDI, BNC 75 Ω, SMPTE 424M
Genlock	1× BNC 75 Ω, input
Timecode	1× BNC 75 Ω, input
Network	1× RJ45 10/100/1000 Mbps, PoE++
Audio	1× Line in, 1× Line out (3.5 mm) 2× XLR mic input
USB	1× USB 3.0, Type-C
Control	RS232 in, RS485/422 in, RS422 out (RJ45) VISCA / Pelco-D / Pelco-P
Storage	1× microSD
Power jack	JEITA, DC 12 V in
Optional versions	Full NDI · Dante AV Ultra · HDBaseT SFP+ ST 2110 · SFP+ SDVoE

NETWORK

Video compression	H.264 / H.265 / MJPEG
Streams	First and second stream
First stream	3840×2160, 1920×1080, 1280×720, 1024×576
Second stream	720×576, 720×480, 320×240
Bit rate	32 kbps – 81920 kbps, CBR / VBR
Frame rate	50 Hz: 1–50 fps · 60 Hz: 1–60 fps
Audio	AAC, 96 / 128 kbps
Protocols	NDI|HX3, Dante AV-H, Free-D, SRT, TCP/IP, HTTP(S), RTSP, RTMP(S), Onvif, DHCP, Multicast

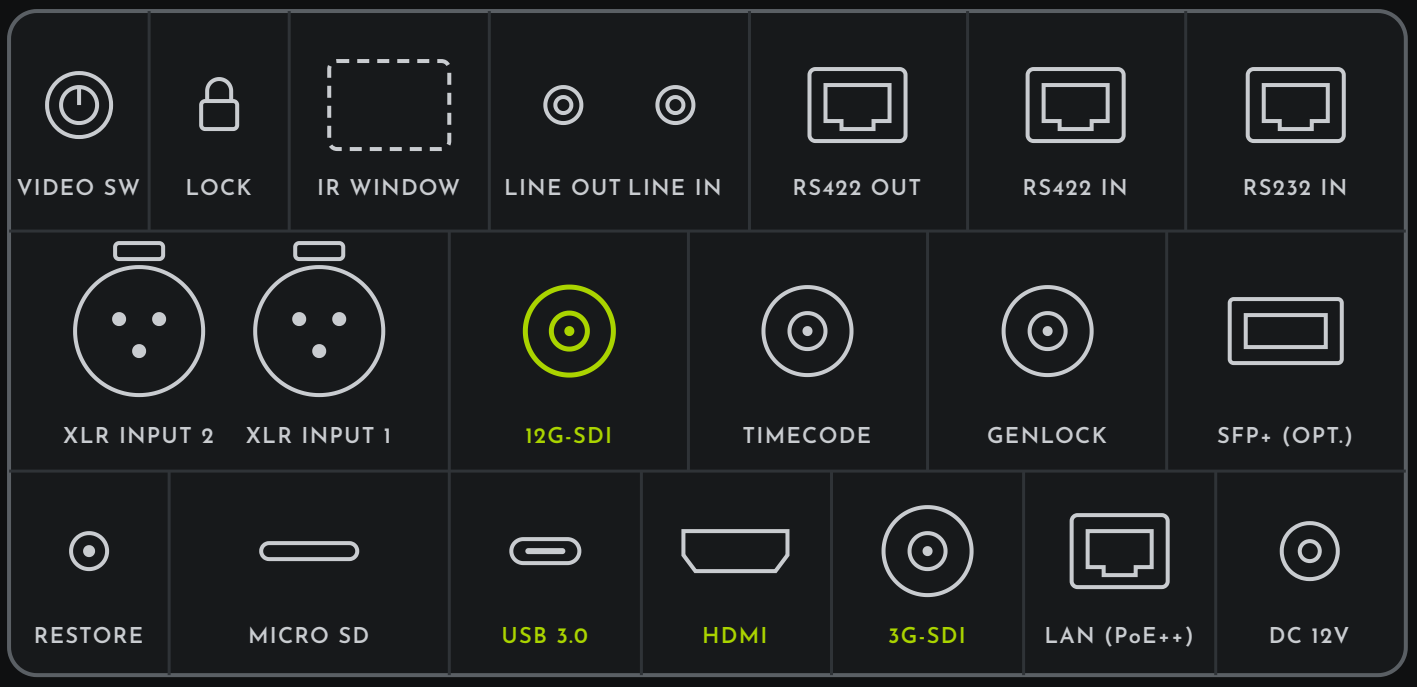
GENERAL

Installation	Desktop or ceiling (inverted)
Tally	3 lights (2 front, 1 rear), red / green
Indicators	Power (blue), status (green, red)
IR remote	Supported
Input voltage	DC 12 V / PoE++
Input current	5 A max.
Dimensions (W×D×H)	205 × 237 × 272 mm
Weight	4.8 kg

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Interface Diagram

OWLX20 PRO · REAR PANEL



VIDEO

12G-SDI	BNC 75 Ω, up to 2160p60, SMPTE 2082-1
3G-SDI	BNC 75 Ω, up to 1080p60, SMPTE 424M
HDMI	HDMI 2.0, up to 2160p60
USB 3.0	Type-C, UVC 1.1 with PTZ control and audio
SFP+	Optional: ST 2110 or SDVoE

AUDIO & SYNC

XLR Input 1 / 2	Microphone inputs
Line In / Out	3.5 mm jack
Genlock	BNC 75 Ω, input
Timecode	BNC 75 Ω, input

NETWORK, CONTROL & POWER

LAN (PoE++)	RJ45 10/100/1000 Mbps, powers the camera
RS232 In	RJ45, VISCA / Pelco-D / Pelco-P
RS422 In / Out	RJ45, VISCA / Pelco-D / Pelco-P
DC 12V	JEITA connector, 5 A max.

OTHER

Micro SD	Local recording to card
Video SW	Rotary switch for output video format
Restore	Factory reset button
IR window	Receiver for the IR remote
Lock	Security lock slot

AUTHORIZED DISTRIBUTOR

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