

## ● VCC-7-4K20S-3SMNB

## KEY FEATURES



- Resolution: 4K, 1080P, 720P
- Zoom: Optical 20X, Digital 12X. SRZ Feature: Up to 30X in 4K and 40X in FHD via SRZ-Super Resolution Zoom
- 70 Degrees wide angle.
- Image Stabilizer
- H.264/265 IP video stream, RTMP live streaming.
- Video Output: HDMI, HDBaseT, 3G-SDI, 4K IP
- Enhanced Pan and Tilt movement
- Visca Over IP and ONVIF IP control is available
- Power: DC 12V, POE (IEEE802.3bt), HDBaseT POH



## OVERVIEW

**Ideal for** Broadcast TV, Videoconferencing, House of worship, Live sports and events, Educational environment, Corporate training, Large auditoriums. Distance learning, Courtrooms, sports stadiums and Telemedicine applications.

**VCC 7 Series** is newly upgraded 4K PTZ camera, which provides remote 4K IP streaming in addition to local SDI video output, and enhanced performances in image quality and operation.

**Dual Output** PTZ camera provides simultaneous 3G-SDI and remote 4k IP video streaming and control.

**Comprehensive** image parameter setting and tally lights for Broadcast-friendly use and Pro AV applications.

**Extremely quiet and smooth** Pan/Tilt movements combined with enhanced adaptive variable and super slow speed control provides accurate and effective operation experiences.

**Bolin's built-in HDBaseT interface** provides One Cable Solution, a single Cat 5e/6 cable carries uncompressed 4K video, audio, camera (RS232/422) control and IR control, IP video and IP control, power(POH) for running distance up to 80-100 meters and for easy installation.



BC-7-4K20S-3SMNB/B

# FEATURES

## Uncompromising 4K Images

Equipped with Sony 4K image module (1/2.5" CMOS 8.5MP) which delivers an uncompromised broadcast quality color picture in detail-packed 4K/30p. Also the footage can be captured in Full HD 60p for fast-moving action applications. Upgraded low light sensitivity brings low noise color video images in low light levels as low as 0.4lx, making it an ideal choice for low light environment like live hall and theater.

**SRZ** - Super-Resolution-Zoom expands zoom range to 30X zoom at 4K, or 40X zoom at FHD without sacrificing detail.

## Image Stabilizer

Bolin camera's built-in image stabilizer function eliminates the effect of blurred, shaky images caused by low-frequency vibration.

## Versatile Video Outputs

Flexibility in professional broadcast and AV environments with multiple choices of video outputs:

- \* 4K HDMI and 3G-SDI, CVBS
- \* HDBaseT video output is built in.
- \* IP streaming and RTMP live streaming

## Control Capability

The camera provides multiple methods of controlling, which gives you capabilities of local control and remote control without distance limitations.

- \* RS232, RS422/485, IP, HDBaseT, IR remote controller.
- \* Protocol supported: VISCA, VISCA-Over-IP, PELCO D, IP Onvif, HDBaseT one cable control.

## Flexible Installation

Installation is simplified in a wide range of environments via:

- \* RJ45 RS232/422 control port provides convenience of wiring.
- \* PoE+ and POH (Power over HDBaseT) to reduce cabling requirements.
- \* Standard and ceiling mount and tripod with E-Flip function.

## Always Up to Date

Always up to date, Download the latest Firmware upgrade via USB and IP interface which constantly improves the camera features and performance, even for customized function upgrades.

## Local Storage (Beta)

Local storage using SD card up to 128GB. Compressed video of the event can be restored and reviewed from the remote site via IP.

## Other Features

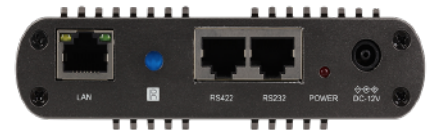
- \* Picture Profile Preset- Image parameter setting restore with presets and quick access operation.
- \* Audio output Embedded with SDI and HDMI



Back Panel



HDBaseT Receiver (Optional)



BL-BR4K-1 Back



BL-BR4K-1 Front

## ORDER INFORMATION

- VCC-7-4K20S-3SMNB/B (Black)      • VCC-7-4K20S-3SMNB/W (White)
- BL-BR4K-1 (HDBaseT Receiver, sold separately)
- Bolin 97W High Power POE Injector sold separately. Model number:BL-PP97
- VCC-CC45232 (RJ45 to RS232 8 Pin Mini Din Cable Adapter)      • VCC-CC45RS (RJ45 to RS422/232 Cable Adapter)
- VCC-WM (Wall Mount)      • VCC-CM (Ceiling Mount)

# Product Specification

<b>Model No</b>	<b>VCC-7-4K20S-3SMNB</b>
<b>Camera</b>	<b>20X 4K</b>
Image Sensor	1/2.5" CMOS 8.51MP
Lens	Optical Zoom 20X, Up to 30X in 4K and 40X in Full HD with SRZ(Super Resolution Zoom) feature 4.4mm(Wide)-88.4mm(Tele)
Digital Zoom	12X
Horizontal Angle of View	70.2°(W)~4.1°(T)
Aperture	F2.0(W)~F3.8(T)
Min. Illumination	0.4lux (1/30s, 50%, High Sensitivity mode On), 1.6lux (1/30s, 50%, High Sensitivity mode Off), 0.06lux(1/4s(1/3s),50%, High Sensitivity mode On), 0.21lux(1/4s(1/3s),50%, High Sensitivity mode Off)
Shutter Speed	1/1~1/10000s (22 steps)
Focus	Auto Focus(Trigger/Interval), Manual Focus(Variable Speed), One Push Trigger, Near Limit,
White Balance	AUTO, ATW, Indoor, Outdoor, One Push WB, Manual WB, Outdoor Auto, Sodium Vapor Lamp (Fix/Auto/Outdoor Auto)
Exposure	Full Auto, Gain, Shutter Priority, Iris Priority, Manual, Bright
Features	High Sensitivity, Defog mode, Backlight Compensation, HLC, Flipper, Mirror
ND Filter	-
WDR	YES
Noise Reduction	On/Off (level 5 to 1 / Off, 6 steps), 2D/3D
S/N Ratio	50db
Sync System	Internal
Image Stabilizer	YES
<b>Mechanical</b>	
Pan Movement	Horizontal:±350 degrees continuous pan (Zoom Adaptive Speed Range: 0.05°~100°/S)
Tilt Movement	Vertical:+90 degrees to -30 degrees (Zoom Adaptive Speed Range: 0.05°~50°/S)
Preset Position	128 (Speed adjustable: Up to 150°/S, 6 presets on remote controller.)
Preset Speed	0~5 Level Adjustable
Preset Memory	YES, (Picture Profile Preset-Preset Memory for image parameters)
Home Position	Support
Environmental	Indoor
<b>Interface</b>	
Video Output	1XRJ45-IP/HDBaseT(4K), With HDBaseT video output transmission distance up to 80-100 meters 1XHDMI Type A- HDMI1.4(4K), 1XBNC-3G-SDI(1080P), 1XC VBS.
Video Format (HDMI)	4K 2160p:29.97/25; 1080p:59.94/50/29.97/25; 1080i:59.94/50; 720p:59.94/50
Video Format	SDI 8bit, YCbCr, 4:2:2; HDMI 8bit, YUV/RGB 4:2:2
IP Video Stream	Up to 4K/30 and 1080p60
Camera Control Interface	RS232/RS-422/RS485(RJ45X2, Phoenix Connection adapter included), IP Control (RJ45), HDBaseT (RJ45), IR Remote Control
Control Protocol	VISCA, VISCA Over IP, Pelco D, IP Onvif, IP Control Client Software
LAN	RJ45X1(100Mb, share with HDBaseT), 4k IP video streaming, System upgrade, POE(IEEE802.3at)
Synchronization	Internal synchronization
Audio I/O	Audio input x1, Audio output x1, 3.5mm audio jack (IP Models)
Audio Output	Embedded with SDI, 24bit Stereo
Edge Storage (Beta)	Micro SD, Class 10, Up to 128GB
Tally Light	Red Color, Front
Dip Switch	Bottom: 8 PIN x 1; Back Panel: Video Resolution Dip X1
System Firmware Upgrade	Upgrade for camera system Via USB2.0 (for FW upgrade only) and IP IEC60130-10 (JEITA standard RC-5320A) TYPE4
Power Connector Type	
<b>HD-SDI Signal</b>	
SDI Standard	Supports SD-SDI, HD-SDI, 3G-SDI
Video Format (SDI)	1080p:59.94/50/29.97/25/23.98; 1080i:59.94/50; 720p:59.94/50
Standard	SMPTE 292(1.5Gb/s), SMPTE 425-A(3Gb/s) With SMPTE352 SDI Metadata Supported
<b>Network</b>	
Video Compression	MJPEG,H.264/H.265
IP Video Format	3840x2160p30/25/24, 1920x1080p60/50/30/25/24, 1280x720p60/50
Protocols	TCP/IP, ICMP, ARP, RTP, SIP, UDP, HTTP, DNS, DHCP, FTP, NTP, RTMP, RTSP
Multi-stream	3 data stream function will satisfy various bandwidth, frame rates and storage requirements in real time
Audio Compression	AAC-LC Broadband Audio Encoding(Duplex Communicate Supported, Audio/Video synchronization)
OSD	Customized OSD, Support custom LOGO insert
Compatible Integration	ONVIF2.4, VISCA Over IP
<b>General</b>	
Operating Temperature	-10 to +50 (°C)
Operating Humidity	≤80% Suitable for Use
Power Input	12VDC, POE(IEEE 802.3bt), POH(Power Over HDBaseT, IEEE 802.3bt)
Power Consumption	Min: 12W(Static state with no movement); Max: 25W (Fully loaded operation)
Dimension	160x178x220mm
Weight	2.7kg
Body Color	Black, White
<b>HDBaseT Receiver</b>	* Optional, Sold Separately
Model No.	BL-BR4K-1
Input	1XRJ45-HDBaseT
Output	1XHDMI Type A - HDMI 1.4b, 1XRJ45- IP Pass-Thru (100Mbps,extend connection only, not IP encoder)
Power Input	DC54V, 2.77A
Power Output	POH(Power Over HDBaseT), Power over one CAT6 network cable
Power Consumption	Up to 97W
Control Interface	2XRJ45-RS232/ RJ45-RS422/RS485, IR Control Sensor
IR IN Control Interface	3.5mm 3.5-5v TTL
Audio Output	3.5mm Jack
Dimension	164x118x33mm
Weight	0.52KG
*	This HDBaseT receiver is not an IP video encoder. The LAN Port is IP Pass-Thru for the camera with IP control or IP streaming functionality.