

# Ikegami

4K

4K ready

## 3G Fiber Base Station

HDR

# BSX-100

The BSX-100 is a newly developed base station supporting Ikegami's current "UNICAM HD" camera models, HDK-99 and HDK-73.

Its compact and light weight design with 3U half-rack size allows operation in a variety of locations such as studio, OB Van, etc.

Moreover, the base station provides not only 3G/HD signal outputs, but also up-converted 4K and MoIP outputs, flexibly supporting various kinds of systems depending on the needs.



\* The BSX-100 supports the HDK-97A, HDK-79GX and HDK-55 as an option.

### HDR (High Dynamic Range) Mode

The base station supports HLG (Hybrid Log Gamma), conforming to ITU-R BT.2100 which is an international standard for HDR. It is now possible to expand the range represented from dark to bright, providing superb bright pictures with High Dynamic Range, and also achieves rich colors with wide color gamut.



### MoIP Interface (Option)

The BSX-100 provides the transportation for separate video, audio, and metadata as independent IP multicast streams by optional plug-in MoIP Unit, realizing more flexible system integration depending on the customer's system workflow. The unit supports uncompressed HD IP main output in 10GbE with low latency, providing superb picture quality. Moreover, redundancy is possible by using a 2nd SFP module (option), based on ST.2022-7.

\* Supported Signal

- MoIP I/F (SFP OPT-T/R) x 2 ports
- HD-LINE OUT (3G/1.5G) x1ch
- HD MON OUT x1ch
- HD Trunk OUT x1ch

- 4K-LINE OUT x1ch  
(When an optional built-in HD to 4K up-converter board is equipped.)
- HD RET IN x4ch
- HD QTV IN x1ch
- REFERENCE IN

### 4K Upgrade Path (Option)

The base station can provide a 4K signal output with an optional built-in HD to 4K up-converter board. With this board, 12G-SDI or 3G-SDI Quad Link or 4K MoIP output are available for 4K signal interface, allowing HD camera models, HDK-99 and HDK-73, to operate in a 4K workflow.

\* When 4K MoIP output is used a 25GbE SFP module is needed.

## Ratings

### Supporting Formats

1080p (59.94 or 50Hz) YPbPr 4:2:2  
 1080i (59.94 or 50Hz) YPbPr 4:2:2  
 1080i (119.88 or 100Hz) YPbPr 4:2:2  
 1080p (29.97 or 25Hz) YPbPr 4:2:2  
 1080psF (29.97 or 25Hz) YPbPr 4:2:2  
 1080p (23.98Hz) YPbPr 4:2:2  
 1080psF (23.98Hz) YPbPr 4:2:2  
 720p (59.94 or 50Hz) YPbPr 4:2:2

### Input Signals

External Sync Signal	Tri SYNC SMPTE274M/BB(VBS) x2ch (Loop Through)
Return Video Signal	3G/HD-SDI Single End x4ch * When 3G-SDI signal is input for return video signal, it is converted to HD-SDI (1.5G) signal in the base station to transmit to the camera head.
Q-TV Signal	3G/HD-SDI Single End x1ch * When 3G-SDI signal is input for QTV signal, it is converted to HD-SDI (1.5G) signal in the base station to transmit to the camera head.
MoIP Signal(Optional) * Supported with an optional plug-in MoIP Unit	SMPTE ST.2110 NMOS (SFP IN)
Data Trunk Signal	RS-422 x 2ch
Intercom(ENG/PROD)	4-wire or Clearcom or RTS
4-wire	0dBm 600 ohm x2ch
Clearcom	-15dBs 200 ohm x2ch
RTS	0dBs 200 ohm x2ch
PGM(Program Sound)	0dBs 600 ohm/10k ohm switchable x3ch
Tally	R/G/Y x3ch MAKE/POWER selectable

### Output Signals

[Main Video Signal]

4K Signal(Optional) * Supported with an optional built-in 2K to 4K Up-converter Board	12G/6G-SDI 75 ohm BNC x 4ch 3G/HD-SDI 75 ohm BNC Quad Link x 2ch
3G/HD-SDI Signal  Main / Trunk Video Signal (Common)	Serial Digital 75 ohm BNC x8ch  3G/HD-SDI 75 ohm BNC x 3ch * Only HD-SDI signal is available for Trunk Video channel with Unicam HD cameras.
MoIP Signal(Optional) * Supported with an optional plug-in MoIP Unit	SMPTE ST.2110 NMOS (SFP OUT)

MON Signal	3G/HD-SDI Signal 75 ohm BNC x1ch
Data Trunk Signal	RS-422 x 2ch
Phase Reference Signal	Tri-Sync(0.6Vp-p) x1ch
Intercom(ENG/PROD)	4-wire or Clearcom or RTS
4-wire	0dBm 600 ohm x2ch
Clearcom	-15dBs 200 ohm x2ch
RTS	0dBs 200 ohm x2ch
MIC	0dBs x2ch Low impedance / Digital Audio (AES/EBU)
Tally	R/G/Y x3ch

### Dimensions

W 216 x H 124.8 x D 406.9 mm  
 (W 8.5 x H 4.91 x D 16.01 inches) (excluding protrusions)

### Weight

approx. 8kg

### Ambient Temperature

0°C ~ +40°C (32°F ~ 104°F)

### Relative Humidity

30% ~ 90% (Non-condensing)

### Operating Voltage

AC100V~240V

### Maximum Cable Distance

2000m with 9.2mmφ Fiber Cable (in operation with 2-inch viewfinder)

### power consumption

90VA

Design and specifications are subject to change without notice.



U450B2011-SELF

# Ikegami

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