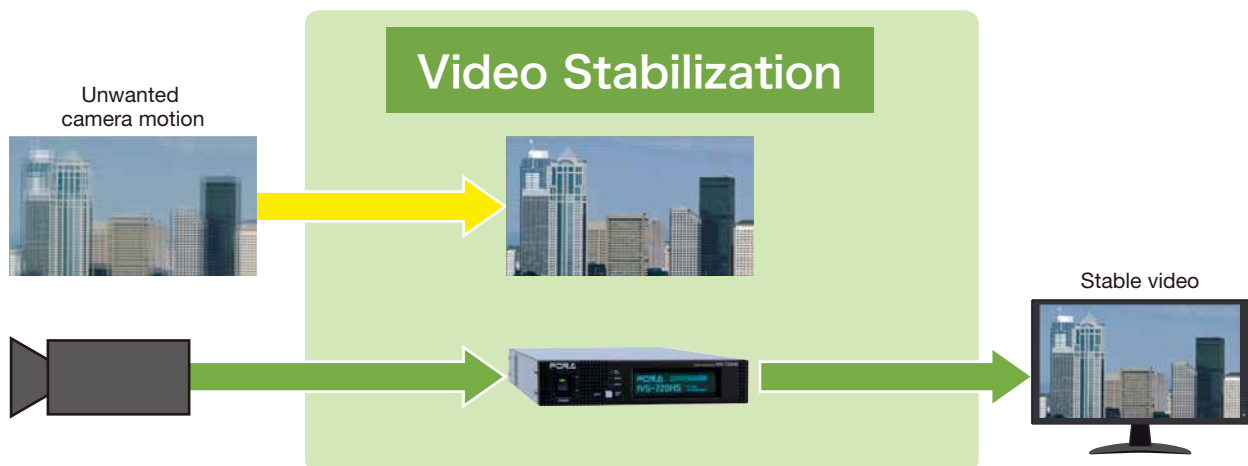**FOR.A**®

Video Stabilizer
IVS-720HS

The photo is a sample image.

Digital video stabilizer to correct unwanted camera movement and many forms of vibration. The IVS-720HS provides real-time correction focused on unwanted camera motion while maintaining camera pan and tilt movement. Ideal for eliminating unwanted motion from weather cameras, hand held news cameras, or program production motion problems. Includes the optional ability to remove haze in real-time.

Video Stabilization

Unwanted camera motion

Stable video

Features

■ 3G*/HD-SDI and SD-SDI formats: 1080p,1080i, 720p, 525/60, 625/50.

■ Compact 1RU size.

■ Provides real-time motion correction (2-frame delay).

■ Real-time haze or fog removal function.

■ Auto detection of camera pan/tilt—only unwanted motion corrected.

■ Correction for both live and recorded video.

■ Powerful correction: up to 40% of source screen size, vertically or horizontally.

■ Sub-pixel precision.

■ Straightforward design—simply supply video signals, no special connection required.

■ Correction in active area only, preserves blanking data.

■ Blanking data transmission timing not affected by correction delay.

■ RS-232C/RS-422/LAN interfaces enable remote control.

■ GUI control function via web browser.

* To be supported.

Options

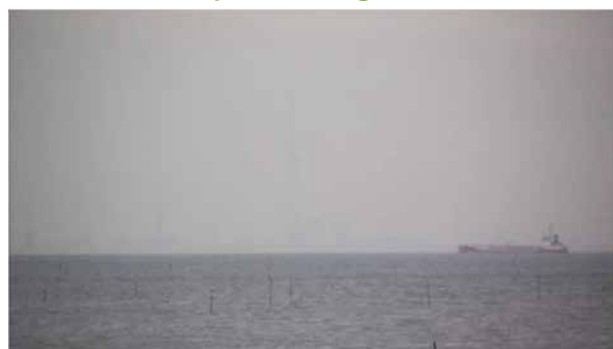### ■ Haze removal function（software）

- Improved processing with unique FOR-A technology.

  Enables real-time removal processing of natural phenomenon such as haze or fog which prevent monitoring.

- Haze removal function can be processed simultaneously with camera motion correction.

  IVS-720HS improves visibility even at locations where severe weather occurrences regularly hamper visibility,

  such as monitoring shipping ports.

Haze removal processing

Original image

Corrected image

■ EIA rack mount brackets

Examples of system configuration

■ Single camera/VCR connection

■ Multi-camera connection

IVS-720HS Datasheet

1. Specifications

Basic specifications

Temperature	0℃ - 40℃
Humidity	30% - 90% (no condensation)
Power	+12V DC
Consumption	Approx. 40 W
Dimensions	212 (W) x 44 (H) x 350 (D) mm (Half 1U)
Weight	3.0 kg
Consumables (at 24-hour operation)	Cooling fan: Replace every 5 years (at room temp.)

Technical specifications

SDI video format	1080/60p *, 59.94p *, 50p *, 30p *, 25p * 1080/60i, 59.94i, 50i 720/60p, 59.94p, 50p 525/59.94i, 625/50i
Video input	3G-SDI: 3Gbps (Level-A/B) * HD-SDI: 1.5 Gbps SD-SDI: 270 Mbps 75-ohm BNC x 2 * IN1 to OUT1 relay bypass output available
Video output	3G-SDI: 3Gbps (Level-A/B) * HD-SDI: 1.5 Gbps SD-SDI: 270 Mbps 75-ohm BNC x 3 (Same video image) * IN1 to OUT1 relay bypass output available
Color sampling	3G */HD/SD-SDI: 4:2:2 10-bit
Genlock input	BB: NTSC: 0.429 Vp-p / PAL: 0.45 Vp-p or Tri-level Sync: 0.6 Vp-p BNC x 1, 75-ohm
Synchronization	Reference mode, Input Lock mode
Adjustable range	±1/2H referring to genlock input (in Reference mode)
I/O delay	1080/60i, 1080/59.94i, 1080/50i, 525/60, 625/50: 2 frames (w/o FS function)
	1080/60p *, 1080/59.94p *, 1080/50p *, 1080/30p *, 1080/25p *, 720/60p, 720/59.94p, 720/50p: 4 frames (w/o FS function)
Haze removal function *	FOR-A proprietary algorithm
Shake correction	Correction range: Up to 40% horizontally and vertically
Frequency response	Horizontal and vertical shake detection (nominal values) 1Hz to 60/2Hz (1080/60p *, 1080/60i, 720/60p) 1Hz to 59.94/2Hz (1080/59.94p *, 1080/59.94i, 720/59.94p, 525/59.94i) 1Hz to 50/2Hz (1080/50p *, 1080/50i, 720/50p, 625/50i) 1Hz to 30/2Hz (1080/30p *) 1Hz to 25/2Hz (1080/25p *)

Shake type	Vertical, horizontal, and diagonal (two-dimensional)
ANC Data	Both HANC and VANC can be passed through
Interfaces	
LAN	100BASE-TX RJ-45 x 1
RS-232C/422	9-pin D-sub (male) x 1

* Planned for future support

Options

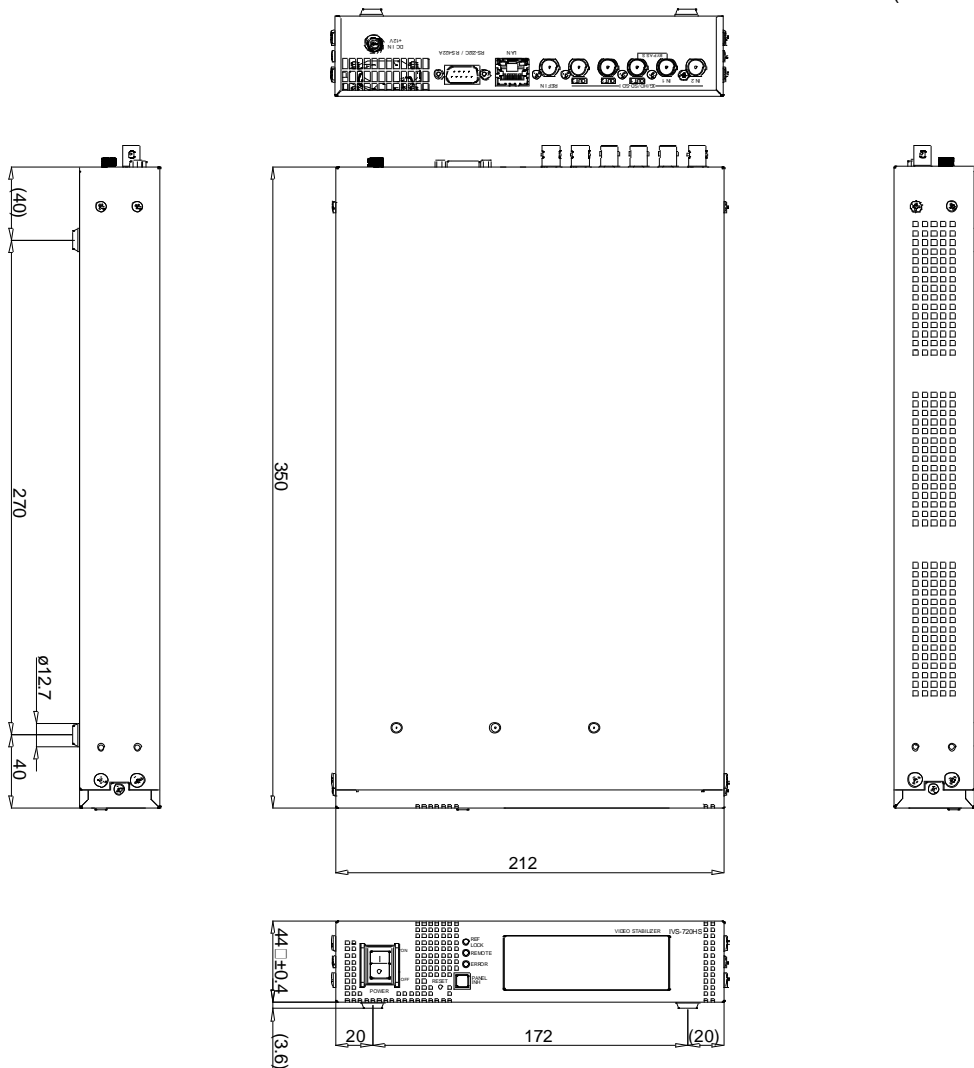|	
EIA rack mount brackets	For 1RU rack space
Haze removal function	Software option

* Planned for future support

Accessories
AC adapter, CD-ROM, and Packing List leaflet.

2. External Dimensions

(All dimensions in mm.)

FOR-A COMPANY LIMITED

Date: 2022/07/01
All specifications and contents are subject to change without prior notice.

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