

## Shinybow SB-5688CK 8x8 HDMI HDBaseT UHD 4k2k Matrix Routing Switch w/ EDID

The SB-5688CK is professional 8x8 matrix routing switch. Supporting eight (8) HDMI inputs. Supports (8) HDMI and (8) HDBaseT (PoH optional via the SB-5688CAP) outputs. The SB-5688CK is based on the HDBaseT standard and supports full HDMI video resolution with embedded EDID and PoH function (optional via the SB-5688CAP), Audio, RS-232, Ethernet and bi-directional IR, all over a single CATx cable. With a signal bandwidth of 340Mhz, there is no signal degradation. High definition digital signals can be selected and distributed to any (8) inputs to (16) outputs simultaneously (channel outputs mirrored). The switcher is certified as being fully CEC and HDCP 2.0 compliant, full HD 4K2K HDMI V1.4a, 3D formats, data rates up to 6.75 Gbps. Supports UXGA/WUXGA/DVI 1920x1200 resolutions to any HD displays. The SB-5688CK has 1x HDMI input, effectively making this an 8 in x16 out switcher (same signal on both HDMI and HDBaseT outputs). Using IR remote the switcher's HDBaseT Extender Transmitter (Tx) allows you to connect a source in a remote location. Likewise, the HDBaseT output and our HDBaseT receiver allows you to connect a display in a remote location. The EDID management can be selected between eight (8) different modes. Control is provided via front panel push buttons, IR remote, RS-232 or TCP/IP (not a web-browser). An RS-232 Windows GUI interface is provided for matrix routing control (Windows only).

Zone control with 8 independent remote controls provide easy channel selection based on independent remotes. For example: Remote 2 controls only video on Output number 2. Also included is one master remote that operates all source and destination devices

HDMI	HDBaseT	EDID	4K2K	AUX AUDIO	PoH	
SB-5688K	Yes	Yes	Yes	Yes		
SB-5688AK	Yes		Yes	Yes	Yes	
SB-5688CK	Yes	Yes	Yes	Yes		
SB-5688CAK	Yes	Yes	Yes	Yes	Yes	
SB-5688CAP	Yes	Yes	Yes	Yes	Yes	Yes

### FEATURES

- (8)x HDMI digital video and digital multi-channel audio player source devices matrix switched to (8)x HDMI outputs and (8)x HDBaseT transmitter with optional PoH (via the SB-5688CAP) outputs to (8)x destinations
- Application HDBaseT specification with optional PoH (via the SB-5688CAP), IR, RS-232, multi-channel digital audio format and HD video signals over single CATx (6/6a/7) category cable
- HDMI digital video w/ embedded HDCP, DVI format and CEC/HDCP 2.0 compliant
- Worldwide control EDID modes for HDMI full 4K2K (24/30 Hz) HD video resolutions
- Link speeds of up to 6.75 Gbps (link clock rate of 340MbHz). Supports HDMI 4K2K, 1.4a 3D formats
- Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i/p & 4K2K (24/30Hz)
- Compatible with all HDMI source devices, PC monitors, Plasma HD displays, HDTV and audio receivers or audio amplifiers
- Digital video TMDS formats resolutions up to 4K2K with Deep color 36-bit
- Digital audio supports: Dolby TrueHD, Dolby Digital, Dolby Digital Plug/ex, DTS, DTS-HD, DTS-HD Master, DTS-EX PCM, PCM2, LPCM2
- Audio inputs supports: HDMI multi-channel digital audio
- Audio outputs supports: HDMI multi-channel digital audio
- Various User Interface Control:
  - Windows based GUI control via RS-232 port
  - Front panel push button
  - IR wireless remote control
  - Ethernet switcher control
  - Third party RS-232 controller (via simple ASCII)
- Supports world wide control functions: Full function front panel controls: ALL/OFF/RECALL/ENTER/MEMORY/EDID/LOCK
- Supports EDID modes : Embedded EDID modes : FSS/H24-3D/H24-3D-M/H36-3D/H36-3D-M/DVI-D 1280x1024-60Hz/DVI-D 1920x1200-60Hz/AUTO
- External modes : Learning mode
- Automatic scanning input & output status via LCM show on front panel
- Supports IR remote and IR extender with distances up to ~ 984 ft (300M) Maximum
- EDID configuration via internal modes
- Supports universal power adaptor AC90V~AC240V, 50/60Hz