

Multiformat Video-Matrix Switcher



The BetaTouch Matrix is not only a simple Matrix!
It also combines the possibility of changing format and resolution.

The following frame sizes are available:

Matrix 4 x 4



Matrix 72 x 72



Matrix 10 x 10



Matrix 144 x 144

Matrix 18 x 18



Matrix 36 x 36



All In- and Output Cards are freely combinable: e.g. HDMI in – SDI or CAT out
The seamless Output Cards support free resolution change.
FullHD, HDMI 1.4, 3D are supported.



Input Cards

DVI Input Card

- 2 x DVI input
- Resolution: 1920 x 1200 / 1080p
- Plug & Play

HDMI Input Card

- 2 x HDMI in
- 2 x Stereo out
- Support: Audio 7.1, HDCP, HDMI 1.4, 3D
- Resolution: 1920 x 1200 / 1080p
- Plug & Play

CAT Input Card

- 2 x CAT Input
- Support: DVI / HDMI / HDCP
- Resolution: 1920 x 1200 / 1080p
- Connect via CAT 6
- Plug & Play

VGA Input Card

- 2 x VGA Input
- 2 x Stereo Input
- Resolution: 1920 x 1200
- Plug & Play

Optical Fiber Input Card

- 2 x CAT in
- Resolution: 1920 x 1200 / 1080p
- 3.2 -core single mode fiber
- transmission distance up to 25 km is possible
- Plug & Play

SDI Input Card

- 2 x HD/SD SDI Input
- Support: SMPTE- 259/292/424/425, seamless Output
- Plug & Play



Output Cards

SDI Output Card

- 2 x HD/SD SDI Output
- 2 x Audio analog out
- Support: SMPTE- 259/292/424/425, seamless Output
- Plug & Play

DVI Output Card

- 2 x DVI Output
- Resolution 1920 x 1200 / 1080 p
- Plug & Play

CAT Output Card

- 2 x CAT Output
- Support: DVI / HDMI / HDCP
- Resolution: 1920 x 1200 / 1080 p
- Connect with CAT 6, Using CAT 6 network cable, based on 1920 x 1200 / 1080p, transmission distance up to 100 m is possible
- Plug & Play

Optical Fiber Output Card

- 2 x CAT out
- Resolution: 1920 x 1200 / 1080p
- 3.2 -core single mode fiber
- transmission distance up to 25 km is possible
- Plug & Play

HDMI Output Card

- 2 x HDMI out
- 2 x Stereo out
- Support: Audio 7.1, HDCP, HDMI 1.4, 3D
- Resolution 1920 x 1200 / 1080p
- Plug & Play

HDMI seamless Output Card

- 2 x HDMI out
- 2 x Stereo out
- Support: Audio 7.1, HDCP, HDMI 1.4, 3D, seamless Output
- Resolution
- 1920 x 1200 / 1080p
- Plug & Play

Extender



HDMI CAT Single Extender

- Resolution: 1920 x 1200 / 1080 p
- Using CAT 6 network cable type, based on 1920 x 1200 / 1080p, transmission distance up to 100 m is possible.



HDMI Optical Fiber Extender

- Resolution: 1920 x 1200 / 1080p
- Supports: Automatic Identification Edit function
- Transmission distance up to 25 km easily possible



VGA HDMI Converter

- Resolution: 1920 x 1200 / 1080p

Amplifier



BTA 44 4 channel DSP Power Amplifier

Outstanding Performance

- High power output: 4 x 800 W@4Ω or 2 x 1400W@8Ω (Bridge Mode)
- Two independent Switched-Mode Power Supplies with dual voltage auto selection
- Class D output stages with Efficiency up to 90% @ full load
- Full protection circuitry including Over-Current, Over/Under-Voltage, Output DC and Over-Temperature
- Four processed outputs for use in driving additional power amplifiers
- Excellent sonic performance with 24bit high end converters coupled with 48kHz sample rate
- 4 inputs, 4 outputs with full matrix mixing

Top-grade DSP Engine

- 5 band parametric equalization per input channel
- 7 band parametric equalization per output channel
- Each band can be switched to Bell, Low/High Shelving, Low/High-Pass, All-Pass, Band-Pass and Notch
- Low/High Shelving, Low/High-Pass, can be selected as 1st and 2nd order, variable Q response
- Crossover filters with slopes from 6dB/Octave up to 48dB/Octave including Butterworth, Bessel, Linkwitz-Riley
- Each output features a precision dynamic range controller composed of a Peak Limiter and a RMS Compressor with selectable ratio and variable knee
- Adjustable Delay time up to 850 ms for every input and output channel

Direct PC/Network Connection

- Front panel USB connector for direct PC communications
- Ethernet interfaces, RS485 connection for system setup, monitoring and control via manageable remote PC software

Control

- Front panel interactive LCD display for local access and configuration
- Front panel 7-LED level meter indicators per channel
- Simultaneous control up to 32 units via PC software
- Up to 60 storable user presets



BTA 88 8 channel DSP Power Amplifier

Outstanding Performance

- High power output: 8 x 250 W@4Ω or 4 x 500W@8Ω (Bridge Mode)
- Two Switched-Mode Power Supplies with active PFC and auto voltage sensing
- Class D - full bandwidth PWM modulator with ultra low distortion
- Full protection circuitry including Over-Current, Over/Under-Voltage, Output DC and Over-Temperature
- Eight processed outputs for use in driving additional power amplifiers
- Excellent sonic performance with 24bit high end converters coupled with 48kHz sample rate
- 8 Mic/Line inputs, 8 outputs with full matrix mixing

Top-grade DSP Engine

- 3 band parametric equalization per input channel
- 5 band parametric equalization per output channel
- Each band can be switched to Peaking, Low/High Shelving with variable Q response
- Crossover filters with slopes from 6dB/Octave up to 24dB/Octave including Butterworth, Bessel, Linkwitz-Riley
- Gain Control, Noise Gate, Feedback Eliminator (Mic input only) per input channel
- Peak Limiter and RMS Compressor with selectable ratio and variable knee per output channel
- Automixing functions include NOM (number of Open Miss) attenuation and Gain Sharing algorithm
- Adjustable Delay time up to 380 ms for every input and output channel

Direct PC/Network Connection

- Front panel USB connector for direct PC communications
- Ethernet interfaces, RS485 connection for system setup, monitoring and control via manageable remote PC software

Control

- Front panel interactive LCD display for local access and configuration
- 4 digital input ports for additional 4 preset selections with priority configuration
- 4 digital output ports for triggering external devices



BT 88T 8 in 8 out Digital Matrix Mixer

Outstanding Performance

Excellent sonic performance with 24bit converters coupled with 48Khz sample rate
8 Mic/Line inputs, 8 outputs with full matrix mixing

Top-grade DSP Engine

3 band parametric equalization and Low/High pass filters per input channel

5 band parametric equalization per output channel

Each band can be switched to Peaking, Low/High Shelving with variable Q response

Crossover filters with slopes from 6dB/Octave up to 24dB/Octave including Butterworth, Bessel, Linkwitz-Riley

Gain Control, Noise Gate, Feedback Eliminator (Mic input only) per input channel

Each output features a precision dynamic range controller composed of a Peak Limiter and a RMS Compressor with selectable ratio and variable knee

Adjustable Delay time up to 380 ms per output channel

Direct PC/Network Connection

Front panel USB connector for direct PC communications

Ethernet interface, RS485 connection for system setup, monitoring and control via manageable remote PC software

Control

Front panel interactive LCD display for local access and configuration

Front panel 6-LED status indicators per channel

4 digital input ports for additional 4 preset selections with priority configuration 4 digital output ports for triggering external devices

Simultaneous control up to 32 units via PC software

BT 88 AT 8 in 8 out Digital Automatik Mixer

same as BT 88T

additional with automixing function



BT 44T 4 in 4 out Digital Matrix Mixer

Outstanding Performance

Excellent sonic performance with 24bit high end converters coupled with 48kHz sample rate

4 inputs, 4 outputs with full matrix mixing

Top-grade DSP Engine

5 band parametric equalization per input channel

7 band parametric equalization per output channel

Each band can be switched to Bell, Low/High Shelving, as 1st and 2nd order

Crossover filters with slopes from 6dB/Octave up to 24dB/ Octave including Butterworth, Bessel, Linkwitz-Riley

Each output features a precision dynamic range controller composed of a Limiter working on RMS value of the limiter's input

Adjustable Delay time up to 850 ms for every input and output channel

Phase correction per output channel

Direct PC/Network Connection

Rear panel USB connector for direct PC communications

RS485 connection for system setup, monitoring and control via fully manageable remote PC software

Control:

Front panel interactive LCD display for local access and configuration

Front panel 7-LED level meter indicators per channel

Simultaneous control up to 32 units via PC software