MA-3300D Digital Master Switcher

**Specification**

**Video Signal**
- Serial Digital (SDI/ECI-200M-C, 825/50i or 825/60i)
- Number of Input: 16
- Number of Output: 2 or 4 (Option)
- Transition Mode: O-H, FC, FF, CF, CUT and MIX
- Transition Time: 1.0 sec.
- Transition Function: Take Control, Fade to Black / Go to Silence

**Audio Signal**
- Number of Input: 16
- Number of Output: 8 Channels per 1 Input Signal
- Transition Mode: O-H, FC, FF, CF, CUT and MIX
- Transition Time: 1.0 sec.
- Transition Function: Take Control

**Video Signal**
- Number of Input: 16
- Number of Output: 2 or 4 (Option)
- Transition Mode: O-H, FC, FF, CF, CUT and MIX
- Transition Time: 1.0 sec.
- Transition Function: Take Control

**Features**
- Designed for embedded audio SDI (8-channel in audio)
- 16x5 Matrix Module
- Program and Preset Line (Breakaway of video and audio)
- Aux Line for Monitoring
- Transition Effect of CUT, FF, CF, FC, and Mix
- Maximum 4 DSKs of Self and External Key
- Boarder Effect
- Clip and Gain Control
- Redundant Power Supply
- Internal Source Generator of Black and Silence for Program and Preset Line
- Relay Bypass for PGM1 Out from BASE2 In (for Emergency Matrix)
- The status of each card can be monitored via SNMP. Condition of the video, audio and reference signals can also be monitored.

**General**
- 100BASE-TX, Self and External Key
- DSK: 2DSKs or 4DSKs (Option)
- Safety precautions

**Internal Source Generator of Black and Silence**
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**Option**
- APS (Automatic Program Control System)
- Audio Level Meter
- Clear Output

**Safety precautions**
- To install, make connections and operate this product, please carefully read and observe instructions, precautions and recommendations in our instruction manuals.

**Dimensions (Main frame)**
- H: 132 x W: 480 x D: 530 mm

**Dimensions (Control panel)**
- H: 120 x W: 580 x D: 330 mm

**Power Supply**
- 100 to 240 ±10% VAC, 50/60 Hz
- Main frame: 320VA x2, Control Panel: 125VA x2
- Operating Temperature: 0°C to 40°C
- Power Consumption:
  - Main frame: 400W, Control Panel: 200W

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  - http://www.nec.com/global/prodinfo/broadcast/
MA-3300D master switcher provides high performance and operability to adopt embedded audio signal aimed for digital broadcasting. This switcher has 16 inputs, 2 program outputs, 1 preset output, and 4 downstream keyers.

**Block Diagrams**

**Outside view of Main frame**
The main frame is 3RU in size and mounts a matrix board, a DSK board, a control board and two power supply units.

**Feature**
- More than 1,000 event data per week can be stored.
- Basic language is English and several foreign languages can be displayed for Title and comment. Ex. Japanese, Chinese, Spanish, French, etc.
- Several kinds of VTR and Server can be controlled by serial interface. Ex. Sony, Panasonic, Thomson, etc.

**APS (Automatic Program control System)**
Automatic program control and data management by operating personal computer are available. It can playback the peripheral equipment of VTR, Video Server and Character Generator automatically in accordance with program schedule data.

**Control Block Diagram with APS**
The Master APS can control accurately MA-3300HD Master switcher, VTR, Video Server, etc. in accordance with NTP. One master APS terminal can control one MA-3300HD Master switcher, and data edit terminals can be installed in control system. In the multi-channel transmission, the dual server system can achieve the high reliability and performance.
MA-3300D Digital Master Switcher

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# MA-3300D Digital Master Switcher

## Specification

### Video Signal
- **Serial Digital (SDI)**: SMPTE-SDI (59.94i or 625/50i)
- **Program, Preset, and AUX**
- **Efficiency**: CUT, FF, CF, FCF, and MIX
- **Duration**: 1.0 sec.
- **Feature**: Take Control, Fade to Black / Go to Silence

### Audio Signal
- **Number of Input**: 16
- **Number of Channel**: 8 Channels per 1 Input Signal
- **Program, Preset, and AUX**
- **Efficiency**: CUT, FF, CF, FC, and MIX
- **Duration**: 1.0 sec.
- **Feature**: Take Control, Input Level Control (±20dB by 0.2dB step)

### DSK
- **Number of Key**: 2DSKs or 4DSKs (Option)
- **Mode of Input**: Program or Self Key
- **Adjustment**: Levels, Gain, LUM, SAT and BRT, Border On/Off

### Others
- **General**: Power Supply
- **Power Consumption**: 100 to 240 ±10%V AC, 50/60Hz
- **Dimensions (Main frame)**: 320VA x2, Control Panel: 125VA x2
- **Operating Temperature**: 0°C to 40°C
- **Installation**: 132 (H) x 480 (W) x 530 (D) mm
- **Others**: On-Air Tally Output, Alarm Output, Control of EMG SW'er

### Features
- **Designed for embedded audio SDI** (8 channel in audio)
- **16x5 Matrix Module**
- **Internal Source Generator of Black and Silence for Program and Preset Line**
- **Maximum 4 DSKs of Self and External Key**
- **Transition Effect of CUT, FF, CF, FC and Mix**
- **Redundant Power Supply**
- **Monitoring**
  - The status of each card can be monitored via SNMP. Condition of the video, audio and reference signals can be also monitored.
- **Option**
  - APS (Automatic Program Control System)
  - Audio Level Meter
  - Clear Output

## Safety Precautions

To install, make connections and operate this product, please carefully read and observe instructions, precautions and recommendations in our instruction manuals.