

Tally Interface

Operating Instructions



FSA-100A

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet.

Refer servicing to qualified personnel only.

For the customers in the USA

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a computing device pursuant to Subpart B of Part 15 of FCC Rules.

IMPORTANT INSTRUCTION TO USERS

This equipment complies with Part 68 of the FCC Rules.

If trouble is experienced with this equipment for repair or warranty information, please contact Altei at the address below.

For the Customers in EU countries

Hereby, Altei Corporation, declares that this FSA-100A is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

If you dispose the unit, consult your nearest Altei Service Center. There is no built-in battery.

For the customers in Canada

This Class A digital apparatus complies with Canadian ICES-003.

NOTICE:

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

Tally Interface FSA-100A is designed to be used with digital mixing consoles SONY DMX-R100 and its relatives. Tally Interface FSA-100A extends features of the mixing consoles where users need to work with information about fader position. This information can be used for remote control of external signal sources (fader start), for microphone tally signal, etc.

FSA-100A Connection

Tally Interface FSA-100A connection to a mixing console is easy through the MIDI connector of the console. It is not necessary to modify anything. Information of a fader position is sent through MIDI channel at each event of a position change automatically. This information is detected by the Tally Interface. If faders are driven up (over 69 dB attenuation), corresponding relay contacts at the rear panel of the Tally Interface are switched (closed) for each of 49 faders: 1 – 24, 25 – 48 and Program.

When faders attenuate over 69 dB, the corresponding relay contacts open. Each fader has own galvanically separated switching contact which can be used for different applications.

Functional MIDI Channel connection is indicated at the rear panel by “MIDI Active” LED, which indicates data transmission.

Mixing console MIDI Channel configuration

Mixing console MIDI Channel configuration is necessary for a proper operation of the Tally Interface. The configuration menu is available at the following menu page

```
SYSTEM > MIDI:
  > MIDI CHANNEL

      > TX => 1

  > CONTROL CHANGE

      > MODE => 1

      > TX => ENABLE

  > PC PORT

      > MODE => 31.25 (W.CLOCK)
```

Note

Proper function of the Tally Interface depends on a DMX-R100 software version. Some older versions imply a shift of a fader position to the next one starting at position 33.

How to operate the Tally Interface

After a proper installation it is not necessary to operate the Tally Interface. The Tally Interface can be switched on either before or simultaneously with the mixing console. At the time of switching on, the mixing console does not send any information about the fader positions. Therefore **it is necessary to initialize the Tally Interface before usage**. The initialization is simple: after the mixing console is switched on, the operator drives all faders (1 – 24, 25 – 48 and Program) down. Before this operation all relay circuits would be open independently of the real position of the faders.

Rear panel



Connectors

MIDI In

- 1 – NC
- 2 – NC
- 3 – NC
- 4 – Input High
- 5 – Input Low

MIDI Thru

- 1 – NC
- 2 – Ground (in case of high interference environment, connect with cable shield and a box ground)
- 3 – NC
- 4 – Output High
- 5 – Output Low

Note: USE ONE-TO-ONE CABLE (NO CROSS CABLE)

Fader SW 1 – 24 and Program

1 , 26	Fader 1
2 , 27	Fader 2
3 , 28	Fader 3
4 , 29	Fader 4
5 , 30	Fader 5
6 , 31	Fader 6
7 , 32	Fader 7
8 , 33	Fader 8
9 , 34	Fader 9
10 , 35	Fader 10
11 , 36	Fader 11
12 , 37	Fader 12
13 , 38	Fader 13
14 , 39	Fader 14
15 , 40	Fader 15
16 , 41	Fader 16
17 , 42	Fader 17
18 , 43	Fader 18
19 , 44	Fader 19
20 , 45	Fader 20
21 , 46	Fader 21
22 , 47	Fader 22
23 , 48	Fader 23
24 , 49	Fader 24
25 , 50	Fader Program

Fader SW 25 – 48 and Program

1 , 26	Fader 25
2 , 27	Fader 26
3 , 28	Fader 27
4 , 29	Fader 28
5 , 30	Fader 29
6 , 31	Fader 30
7 , 32	Fader 31
8 , 33	Fader 32
9 , 34	Fader 33
10 , 35	Fader 34
11 , 36	Fader 35
12 , 37	Fader 36
13 , 38	Fader 37
14 , 39	Fader 38
15 , 40	Fader 39
16 , 41	Fader 40
17 , 42	Fader 41
18 , 43	Fader 42
19 , 44	Fader 43
20 , 45	Fader 44
21 , 46	Fader 45
22 , 47	Fader 46
23 , 48	Fader 47
24 , 49	Fader 48
25 , 50	Fader Program

"System Setup" switches

The set of DIP switches is used for operation mode switching.
For normal operation all switches must be set to position "OFF" (down).

Technical specifications

Output relay contacts	:	max. 500 mA, max. 100V, max.10VA
Power supply	:	230V/50Hz
Fuse	:	F400mA
Dimensions	:	483 x 44 x 300 mm
Weight	:	3,92 kg

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