# TECHNICAL DATA

## Basic Equipment

| | |
|---|---|
| RMS Power | **Not** amplified |
| Speaker | **Without** loudspeaker |
| Microphone | **Without** microphone |
| More Information | Dimensions folded : H 123 x W 24 x D 61 cm  / 48.4 x 9.4 x 24"<br>Dimensions open : H 123 x W 73 x D 55 cm  / 48.4 x 28.7 x 21.7"<br>Weight: 20 kg / 44 lbs<br>Outside: cottonwood colored plywood cabinet<br>Inside: black cladding |

## Options Flash amplified

| | |
|---|---|
| RMS Power | 70 Watts / 4 ohms |
| Speaker | 2 loudspeakers 6" - 15 cm |
| Power Requirements | Operates on AC 220v |
| Frequency Response | 50 Hz - 20 Khz |
| Lead Battery | Built-in battery 9 Ah - 12 V with automatic battery charger |
| Working Time | 6 - 9 hours on built in battery / unlimited on AC main |
| Inputs | RCA Line control input<br>1 balanced MIC control input + phantom power on XLR |
| Bands EQ | Bass, Mid, Treble |
| Output | Line output on XLR 3 pins |
| MIC | 1 Gooseneck MIC: GM-302/500 mm |
| 3 Slots | For 1 wireless receiver SDR-6216M to introdue questions or comments from the audience during a presentation.<br>For 1 wireless transmitter RP-6016M to link Flash to addtional cabinets.<br>Up to 2 Players possible: CD/USB player CD-456, Digital player EM010PR, Digital recorder: EM020R |
| Lamp | Lamp Littlite with LED |
| More Information | Dimensions folded : H 123 x W 24 x D 61 cm  / 48.4 x 9.4 x 24"<br>Dimensions open : H 123 x W 73 x D 55 cm  / 48.4 x 28.7 x 21.7"<br>Weight: 29 kg / 63.8 lbs<br>Outside: cottonwood colored plywood cabinet<br>Inside: black cladding |

# FLASH

## U S E R ' S   M A N U A L



Example of a Flash/A with a built-in UHF receiver module, a Wireless transmitter RP 6016 M UHF and  CD/MP3/USB player

# SUMMARY

| Key | Explanations | Front panel Player | Remote control |
|---|---|---|---|
| PRE-DOWN FOL-DER<< | Skips to previous folder<br>**Stop mode :**<br>Skips to previous folder<br>**Program mode:**<br>Selects first title in previous folder<br>**Play mode:**<br>Selects first title in previous folder |  |  |
| REPEAT | "REPEAT"<br>**Repeat all**:<br>**Repeat album**:<br><br>Repeat off ⟶ repeat all ⟶ repeat album | |  |
| PROG | PROG : to make a selection of titles<br>To delete this selection, press STOP | |  |
| MUTE | **Fonction Mute**: music stops<br>To get back to music, press again | |  |
| INTRO | **Intro**: each title is being played for 10 seconds | |  |
| RAN-DOM | Random play mode | |  |
| VOL- | Volume decreases by 1 dB<br>(lowest volume = 0dB) |  |  |
| VOL+ | Increases volume by 1 dB<br>(highest volume 30dB) |  |  |
| FIND | Press to change the information on display (name of album or title) and to select a title. | |  |
| 0~10 | Tape directly on the keyboard number of title + Play |  |  |

| Keys | Explanations | Front panel of player | Remote control |
|---|---|---|---|
| REC | Press briefly the button FUNC to chose: MP3, SD MMC or AUX<br>If you press a little longer you can choose the recording quality<br>**MID→HIGH→LOW→MID**<br>**MID** (128Kbps = medium quality), **LOW** (64Kbps = lowest quality), **HIGH** (256Kbps = highest quality)<br>Select **USB** or **CARD with** >> Next or << Back<br>Press "REC" to start recording . The display indicates **REC WAIT**, then **REC AUX**<br>If you want to stop recording press **STOP**. On the display: **REC OK**<br><br>**CAUTION : Memory place**<br>You need space on your USB key or your card, otherwise recording will not be possible. The display indicates **REC NG** if problem with recording<br>File structure of recording<br><br>USB Root — TM-AUX — AUX001.MP3 / AUX002.MP3<br>USB Root — TMCDDA — Track001.MP3 / Track002.MP3<br>USB Root — TMCDROM — Filename001.MP3 / Filename002.MP3 | REC | REC |
| PRE-UP FOL-DER>> | Skips to next folder<br><br>**Stop mode:** skips to next file<br><br>**Program mode :** skips to the first file in next folder<br>**Play mode :** skips to the first file in next folder<br>. | ◄FOLDER► | PRE-UP |

# INTRODUCTION

Thank you for choosing FLASH. To ensure the best performance and get the maximum life out of

the equipment, we recommend that you read this manual carefully.

**FLASH** is a foldable lectern for conferences (not amplified, without loudspeaker and microphone)

**FLASH/A** is a foldable, transportable and amplified lectern (70 W) available with a wireless system and a wireless transmitter to link with a sound system. The FLASH/A can also be equipped with a CD/MP3/USB player or a digital record player

## ADVICE FOR A GOOD USE

✓ Charge the FLASH/A to 100 % before first use.
✓ Do not use the FLASH in a humid or dusty place, or near any heat sources such as radiators, heat registers, neither under the sun or at very low temperatures.
✓ Place the FLASH in a ventilated place.
✓ Be careful when moving the lectern in order not to damage the electronics.
✓ Carry the lectern with caution.
✓ Do not forget to decrease the volume switch before turning off the lectern.
✓ Handle the control switches carefully.
✓ Clean the lectern regularly.
✓ Keep the carton in case of return.Transport will be safe and without any risk of damage.

⚠ The exclamation point inside an equilateral triangle indicates the existence of internal components whose substitution may effect safety. Also indicates important operating instructions.
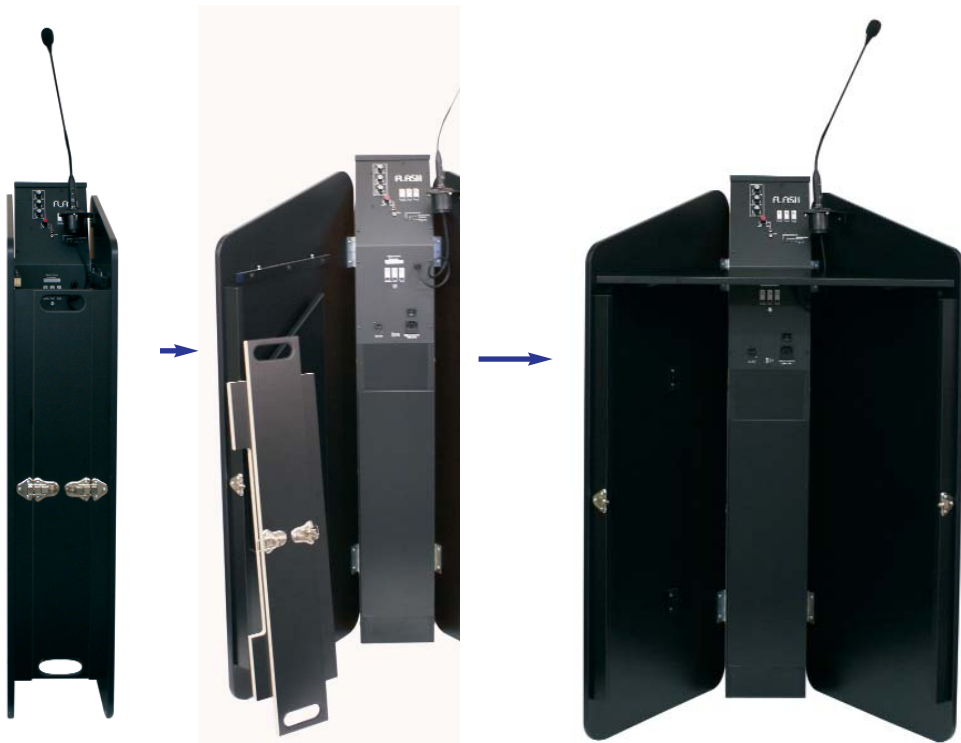
⚡ The lightning and arrowhead symbol warns about the presence of uninsulated dangerous voltage. To reduce the risk of electric shock, do not remove the cover. Refer servicing to qualified personnel.

# FLASH ASSEMBLING

1. Take of the slide and open the two sides.

2. Put off the slide which is situated in the left inner side of the lectern.

4. Fix the slide in the middle of the lectern.

5. Your Flash is ready to work.



| Keys | Explanations | Front panel player | Remote |
|------|--------------|--------------------|--------|
| POWER | On/Off | | |
| PLAY/ PAUSE | Plays music Pause | | |
| STOP | Stops music | | |
| FUNC | To change mode <br><br> USB ⟶ CARD ⟶ AUX ⟶ | | |
| UP/CUE Title skip | Press briefly to select next title. Press a little longer to go forward in the title (>0,7s) **Play mode :** The selected track starts automatically **Stop/Pause mode:** The selected track does not start automatically. **Program mode:** Skips to next track according to selection | | |
| DOWN/ REV Title skip | Press briefly to select previous title. Press a little longer to go backward in the title (>0.7s) **Play mode :** The selected track starts automatically **Stop/Pause mode :** The selected track does not start automatically **Program mode :** Skips to previous track according to selection | | |
| DELETE | In **USB mode**, press DEL and use  >> Next or << Back to select file. .Press for a while >> Next or << again to select the file. Press on DEL to start deleting the file | | |

**EM020R**

MP3 / USB + SD MMC digital player/recorder.





# BASIC EQUIPMENT OF FLASH/A

FLASH/A(70 W RMS) basic equipment:   2 loudspeakers, 1 gooseneck microphone (GM-302)
Inputs: MIC/Line , 3 band Equalizer, Line Output, battery and control LED.

## MIC/Line INPUTS



Mic Input equipped with 1 XLR (3 pins) connector and 1 unbalanced Line Input
equipped with 2 RCA connectors and a volume control.
The input selection is automatic.

| ⓘ CAUTION : MIC ADJUSTMENT |
| --- |
| When switching on Mic, do not  turn the gain on highest level to avoid larsen effect on the loud speakers |

## TONE ADJUSTMENTS



The FLASH/A is equipped with 3 highly performing tone adjustments
1 Bass frequency tone control on 100 Hz with +/- 12 dB efficiency.
1 Treble frequency tone control on 10000 Hz with +/- 12 dB efficiency.
1 voice adjustment especially designed for use  in medium frequency which allows
 for a sharp increase of voice presence on the mic inputs.

## LINE OUTPUT



The  FLASH/A is equipped with a  line output on XLR connector enabling connection to
other sound system You just have to connect the  LINE OUT output to the LINE IN
input of the selected equipment.

## BATTERIES

The FLASH/A is equipped with a lead 9Ah / 12V  battery making lots of loadings and
unloadings possible.
When connected on AC main the Flash / A can work without time limit, while charging.
Minimum autonomy: 3 hours, maximum: 5 hours

| ⓘ CAUTION: BATTERY LOADING |
| --- |
| NEVER STOCK THE EQUIPMENT WITHOUT HAVING RELOADED IT. If storage for a long period is necessary, leave battery connected on AC main and switch OFF. The charging station will load battery when necessary. |

## CONTROL LEDS

✓ **GREEN LED "ON":**
   - The equipment is ready to work
   - The battery is loaded

✓ **RED LED "UNLOADED BATTERY":**
   - Battery has reached its time limit.Estimated working time left:
   from 5 and 20 minutes depending on working options
   - If you have to use the equipment longer than the estimated time connect on AC main. No
   working time limit, the battery is loading simultaneously.

✓**ORANGE LED "CHARGER":**
   - FLASH under power, switch " ON "
   - The internal automatic charger will increase battery tension up to its highest level +/- 13 V.


- On
- Unloaded battery 10mn max.
- Charger ON

# OPTIONS OF FLASH/A



**Flash/L1** Lamp Littlite with LED



Bag for Flash

On/Off + Volume

## RECEIVER SDR-6216M

The FLASH/A can be equipped with a UHF 16 frequencies handheld microphone
The receiver module is integrated in the inferior part of Flash A

**Technical caracteristics of receiver SDR-6216M**
UHF receiver, True Diversity, with Pilotone.

✓ **Switch on the receiver:**
   The switch on the right is power switch <u>and</u> volume control

✓ **Switch on the handheld microphone/beltpack transmitter:**
   The LEDS A and B are lightning when the UHF link between transmitter and receiver is ok.
   Channel can be changed with the switch on the left side.



Channel switch          LED A &B

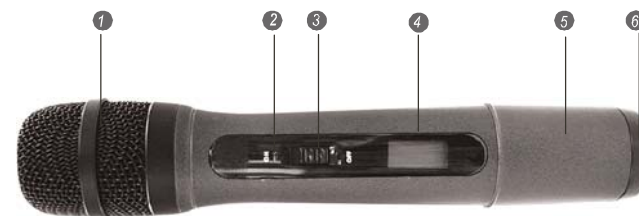| Keys | Explanations | Front Panel Player | Remote |
|---|---|---|---|
| PRE-DOWN FOL-DER<< | Press this to skip to previous file<br>**Stop mode :** to select previous file<br>**Program mode :** to select the first title in previous file<br>**Play mode :** to select the first title in previous file | ◀FOLDER▶ | PRE-DOWN |
| REPEAT | Press this for Repeat function<br>**Repeat 1 track**<br>**Repeat 1 file:**<br>**Repeat all track**<br><br>Repeat off ⟶ repeat 1 track ⟶ repeat 1 file ⟶ repeat all track | REPEAT | REPEAT |
| PROG | Press this to select title. To delete the selection press Stop. | PROG | PROG |
| MUTE | **Mute: stops music**<br>Press and music starts again | | MUTE |
| INTRO | **Intro**: plays each track for 10 seconds. | | INTRO |
| RAN-DOM | Random play mode | | RANDOM |
| VOL- | Decreases volume by 1 dB<br>(lowest volume = 0 dB) | ▼ VOL | VOL.- |
| VOL+ | Increases volume by 1dB<br>(highest volume = 30dB) | VOL ▲ | VOL.+ |
| FIND | Press this to change information on display (name of album or title) and to select title or file. | FIND | FIND |
| 0~10 | Tape directly number of title + play on the keyboard. | | |

| Keys | Explanations | Front Panel Player | Remote |
|------|-------------|-------------------|--------|
| POWER | To switch on or off the player | | |
| PLAY/ PAUSE | Play<br>Pause | | |
| STOP USB/Card (FUNC) | Stops music<br><br>Changes mode | | |
| Pitch Control | Clockwise to increase music speed and anticlockwise to decrease music speed | | |
| UP/CUE Title Skip | Press briefly to skip to next title.  Press a little longer  (>0,7s) to play forwards within a title<br>**Play mode:**<br>The selected title starts automatically<br>**Stop/Pause mode:**<br>The selected title does not start automatically<br>**Program mode:**<br>Enables to skip to next title. | | |
| DOWN/ REV Title Skip | Press briefly to skip to previous title.<br>Press a little longer (>0,7s) to play backwards within a title.<br>**Play mode:**<br>The selected title starts automatically<br>**Stop/Pause mode:**<br>The selected title does not start automatically<br>**Program mode:**<br>Skips to previous title | | |
| PRE-UP FOL-DER>> | Press this to skip to next file<br>**Stop mode :** to choose next file<br>**Program mode :** to select the first title in next file.<br>**Play mode :**  to select the first title in next file | | |

## HAND HELD TRANSMITTER MICROPHONE  SQ-5016

The microphone is equipped with 16 frequencies

1. Microphone capsule
2. Battery status led
3. Power switch  (ON/OFF)
4. LCD display
5. Battery compartment
6. Rotative protective cap for controls
7. Lock/Unlock
8. Set
9. UP
10.DOWN
11.Charging Port
12.Name plate



**Microphone settings**
1. Making changes to CHANNEL/FREQUENCY
Press on Set for 2 seconds to enter into Settings.
Use UP or DOWN button to go to the Channel/Frequency page. Pressing UP or DOWN button will increase of decrease the channel number. The corresponding frequency will change accordingly.
When a desired channel is being selected, it will automatically be saved and stored in the memory.
2. Making changes to SENSITIVIY
Use UP or DOWN button to go to the Set page.. Use UP or DOWN to decrease or increase sensitivity. Level: 1 - 4 . for singing, Level  4 for speech or if microphone is used with a tripod stand
3. Making changes to battery selection
Use UP or DOWN to go to the Battery selection page.
Press UP or DOWN to move the cursor to either: NiMH (rechargeable battery) or AKLN (alkaline).
When the battery has been selected it is saved and stored in the memory

**Changing Batteries**
2 pieces of AA batteries are used. Unscrew the tap of battery compartment and insert the new batteries. BEWARE OF THE POLARITY

## BELT TRANSMITTER SM-5016



1. Antenna
2. Battery weak indicator
3. Audio mute switch
4. Mini-XLR connector
5. Power ON / OFF switch
6. LCD display
7. Charging port
8. Cover release button
9. Charging contacts
10. Lavalier microphone
11. Mic clip

12. SET
13. UP
14. DOWN
15. GT
16. MT

**Belt transmitter settings**

1. Making changes to CHANNEL / FREQUENCY
   Press on Set for 2 seconds to enter into Settings.
   Use UP or DOWN button to go to the CHANNEL /FREQUENCY page. The cursor will flash to allow changes to be made. Pressing UP or DOWN button will increase or decrease the channel number. The corresponding frequency will change accordingly. When a desired channel(frequency) is being selected, it will be automatically saved and stored in the memory.

2. Input Level Gain Control Adjustment
   Low impedance (Lo-Z) " MT" & high impedance (Hi-Z) " GT" gain controls are situated inside the transmitter. Gain controls are adjustment ports that enable you touse microphones of differing output levels and Guitar or instruments with Hi-Z output. To adjust microphone (Lo-Z) input levels, turn the "MT" control and to adjust the Guitar or instrument (Hi-Z) input, adjust the "GT" gain control to set the transmitter's desired audio input level.

3. Making changes to Battery selection
   Use UP or DOWN button to go to the Battery selection page. Press SET for about 2 seconds to activate the cursor. Press UP or DOWN button to move the cursor to either NiMH (rechargeable battery) or AKLN (Alkaline battery) position.When the desired option has been selected, press SET for about 2 seconds to save and store the data in the memory.

**Battery Installation**

SM-5016 uses 2 pieces of " AA " size batteries (Alkaline battery is recommended ). To install or remove the batteries, press the release buttons at the edges of the transmitter to open or close the cover as illustrated below.

## HC-30 CHARGER for MIC and HC-37 CHARGER for BELT TRANSMITTER

Handheld microphones and beltpack transmitters can be reloaded. Before loading check that the batteries are rechargeable ones.

## EM-010PR

This player is equipped with Pitch Control

| Keys | Explanations | Front panel | Remote |
|------|-------------|-------------|--------|
| FOLDER Skip | Enables to skip to previous file<br>**Stop mode :** skips to previous file<br>**Program mode:** skips to first track in previous file<br>**Play mode:** skips to first track in previous file | ◄◄ FOL | — FOLDER SKIP — |
| REPEAT | "REPEAT" in following range<br><br>**repeat all random** ⟶ **repeat track** ⟶ **play all** ⟶<br>⎿⟶ **repeat all    random repeat** ⟵ | REPEAT | REPEAT |
| PROG | Enables to choose the tracks .<br>To delete this selection press Stop. | | PROG |
| MUTE | **Mute**: to cancel Mute press this button again. | | MUTE |
| CD | Changes mode and skips to  CD-MP3 mode | CD/USB | CD |
| USB | Changes mode and skips to USB mode | CD/USB | USB |
| VOL- | Decreases volume by  1 dB<br>(lowest volume = 0dB) | VOL- | VOL.- |
| VOL+ | Increases volume by 1 dB<br>(highest volume  30dB) | VOL+ | VOL.+ |
| FIND | Enables to change the display information (Album or title) and to choose the right title or file. | | FIND |
| 0~10 | The keyboard enables to choose the title directly by typing title number + Play. | | 1 2 3 / 4 5 6 / 7 8 9 / 0 |

## UHF TRANSMITTER  RP-6016M

**Technical specifications of transmitter RP-6016M**
UHF 16 frequencies , True Diversity, with Pilotone
1. Power switch (ON/OFF)
2. Antenna socket (TNC)
3. Channel
4. Audio sensitivity: clockwise to increase sensitivity and anti-clockwise to decrease.
5. Output power switch. L for LOW power and H for HIGH power. Low Output power will reduce the  RF transmission distance and High Output power will extend the possible RF transmission distance.



The RP-6016M transmitter enables the link between  Flash / A and other active sound systems (Nomade UHF, Premio UHF,...) or another sound system with a rackable UHF receiver  (SDR 1816SC)



UHF amplified sound system Nomade    UHF amplified sound system Premio    UHF rackable receiver SDR 1816 C

## PLAYERS

The FLASH/A can be equipped with 3 possible players: a CD/MP3/USB Player(reference CD-456), a digital player (reference EM010PR) or a digital player/recorder (referenceEM020R), built in under the LED.

### CD-456

The CD player /MP3/USB Plug is equipped with an antichoc memory making it insensible to use handle and vibrations.
The absence of drawer makes handling CDs in and out secure. It is equipped with Pitch control.





| Keys | Explanation | Front Panel | Remote |
|---|---|---|---|
| PLAY/ PAUSE | If on Stop CD starts playing<br>If on Play it turns to Pause<br>If on Pause the CD starts playing again | | |
| STOP/ EJECT | Stops music or<br>CD ejection | | |
| Pitch Control | Clockwise to increase music speed and anti clockwise to decrease music speed. | | |
| ESP | Anti choc memory. Lasts 40 seconds | | |
| UP/CUE Skip | Single and slightly pressed skips to next track. If pressed again a little longer goes forward in the track.<br>**Play mode:**<br>The selected track starts playing<br>**Stop/Pause mode:**<br>Skips to next track.<br>**Program mode:**<br>Skips to next track according to program selection | | |
| DOWN/ REV Skip | Single and slightly pressed skips to previous track. If pressed again a little longer goes to previous track<br>**Play mode:**<br>The selected tracks starts automatically<br>**Stop/Pause mode:**<br>Playing does not start automatically<br>**Program mode:**<br>Skips to previous track according to program selection | | |
| FOLDER Skip | Enables to skip to next file<br>**Stop mode:** skips to next file<br>**Program mode :** skips to the first track in the next file.<br>**Play mode :** skips to the first track in the next file | | |