

TECHNICAL SPECIFICATION PYROMASTER MASTER MINI



Firmware version:

1.5.x

Hardware version:

2200

Document revision:

1.1

1. **Features:**

1.1. Available operating modes:

- Manual
- Sequential
- Automatic

1.2. Automating mode trigger:

- local
- from PyroMaker software (USB)

1.3. Supported Slave count: 8

1.4. Channel range in manual mode: 1 - 96

1.5. Maximum supported sequence count: 96

1.6. Sequence designation range: 1 – 96

1.7. Continuous time synchronisation with PyroMaker software during ongoing show: yes

1.8. Continuous time synchronisation with Slave unit during ongoing show: yes

1.9. Slave remote arm/disarm: yes

1.10. Slave remote igniters test: yes

1.11. Replicator remote igniters test: yes

1.12. Connection test to Slave unit: yes

1.13. Remote Slave standby mode on/off: yes

1.14. Preview, adding and removal of paired Slaves: yes

1.15. Radio channel selection: yes

1.16. PIN code on power on: yes (optional)

1.17. Display backlit regulation: yes

1.18. Battery charge display: yes

1.19. Keyboard confirmation sound: yes

1.20. Buttons backlit colour alteration depending on operating mode: yes

1.21. Backlit power off for channels used in manual mode: yes

- 1.22.Backlit power off for used sequences: yes
- 1.23.Confirmation of successful Slave arm: yes
- 1.24.Confirmation of successful arm of Replicators connected to Slave unit: yes
- 1.25.Semi-automatic channel triggering in manual mode: yes (STP button)
- 1.26.Semi-automatic sequence triggering: yes (STP button)
- 1.27.Current show time display: yes
- 2. Radio link:**
 - 2.1. Radio frequency: 869MHz
 - 2.2. Available radio channels: 9
 - 2.3. Maximum transmitter power: 500mW (27dBm)
 - 2.4. Receiver sensitivity: -116dBm @BER 10^{-3}
 - 2.5. Adjustable transmitter power: yes
 - 2.6. Range in dense urban environment (without direct line-of-sight): approx. 1-2km
 - 2.7. Range in open area (direct antenna line-of-sight): up to 10km
 - 2.8. Transmission type: bidirectional
 - 2.9. Transmission security: encryption, checksum, acknowledgements
- 3. USB communication:**
 - 3.1. USB device mode: yes
 - 3.2. USB connector style: Micro-B
 - 3.3. Detection of units used in the show: yes
 - 3.4. Automatic mode update when triggered from PyroMaker software: yes
 - 3.5. Transmission security: encryption, checksum, acknowledgements
- 4. Protection:**
 - 4.1. ESD (Electrostatic Discharge) protection
 - 4.2. Resistance to shock and weather conditions
 - 4.3. System auto-diagnostics
 - 4.4. Self error prompts (e.g. controller error)
 - 4.5. Replicator and Slave error prompts (e.g. arm error, low battery)
 - 4.6. Data transmission encryption
- 5. Other:**
 - 5.1. Continuous operation on single battery charge: approx. 18h
 - 5.2. Menu language: polish, english
 - 5.3. Battery charge voltage: 5V
 - 5.4. LCD display backlight: yes
 - 5.5. Membrane keyboard: yes
 - 5.6. Keyboard buttons backlight: yes (RGBW)
 - 5.7. Battery charge indicator: yes
 - 5.8. External antenna: yes
 - 5.9. Antenna connector style: SMA
 - 5.10.Weight: 0,27kg
 - 5.11.Dimensions: 17x8x3cm
 - 5.12.Working temperature range: -20°C do +40°C