



Instruction Manual

Parus M10 / M20 Mini Farm

Guarantee conditions

Your product is covered by a 2-year guarantee. The guarantee is valid from the date of purchase as shown on your receipt. To make a guarantee claim, please contact the reseller from whom you purchased the product.

Exception from the guarantee commitment

The guarantee will be invalidated in any of the following events:

- if the product has been modified or redesigned
- if the product has been connected to a dimmer
- if the product has been connected to the wrong voltage or to a dimmer control device
- if the product has been used outside the recommended temperature range
- if the product has been subjected to mechanical damage, e.g. dropped on a concrete floor
- if the product has been dismantled for troubleshooting/repairs

Read the user instructions before using the product. Save the instructions for future reference.

Safety instructions

Before using the light, read and follow these instructions:

- the light is NOT intended for outdoor use
- unplug the power cord when you clean, disinfect or move the product
- disconnect the power if the electrical connections to the device get wet
- only use spare parts and consumables for this product as provided by the manufacturer
- temperature range +16°C – +26°C
- make sure your hands are dry during installation
- never use the product in a sealed compartment; always allow air to circulate around it
- do not connect the product to a dimmer
- do not look directly at the light when it is on
- take care when connecting the product to avoid electric shocks
- the product's heat sinks will become hot (35–50°C) during use
- all electrical installation work required to install the product must be performed by a qualified professional
- do not use the product if it fails to light up, starts blinking or emits a weak light
- In the event of malfunction, switch off the unit immediately. Never try to repair the product yourself, since this could cause serious damage and invalidate the guarantee

General information

Many indoor plants come from parts of the world where the daytime hours and light conditions are very different to our own. Growing indoors therefore places particularly high demands on the lighting. With the right light source, you can grow herbs and plants indoors and additionally enhance comfort for us humans.

Technical function

The product consists of a light source (LED) with wavelengths that are optimized to boost plants' health and growth.

Storage and maintenance

Store the light and packaging out of children's reach. The LED has no replaceable parts.



Model designation: PMF-M10

Product Type: Cultivation and storage of spices and plants

Features:

- Keeping of spices bough in the grocery store
- Suitable for small scale cultivation in the home and training area
- Specially designed LED lighting as a result of many years of research and development. By applying a technique with optimal combination of wavelengths and brightness the growth is maximized
- Lightweight and easy to use
- Fits on the windowsill
- Standard Version: For cultivation in soil or hydroponics

Technical specifications

Dimensions (WxLxH):	180 x 360 x 390 mm
Material:	Aluminium, acrylic
Output:	22 W
Voltage:	85~285VAC, 50/60Hz
LED light:	LED plant light (white light)
PPFD (200mm):	PPF 225 μmol^*
Beam angle:	60°
Lifespan:	>50 000 hours

*) PPFD is the amount of useful plant light.

Components



1. Power supply – 220V
2. LED Grow light - The LED grow light emits an artificial light that can replace the sun.
3. Built in Timer/Dimmer - Automatic setting of illumination time.
4. Container - Container for soil or hydroponics etc.

Assembly

1. Screw the light frame and base together.
2. Use a Phillips-head screwdriver to secure the bottom to the light bar



Proper placement

The product should be placed in a suitable location indoor with a temperature between 16 and 26 degrees. The ideal environment is a temperature of 18 - 24 degrees, with a humidity of 50% and good air circulation.

The product should be installed on a flat and stable surface. If the product is not placed horizontally it may result in water leakage or the cultivation may become uneven. Ensure that the power plug is dry before you plug it into the socket!

Using the Timer / Dimmer

The M10/M20 has an integrated timer with 4 mode buttons and 2 light adjustment buttons. The mode buttons have a LED that indicates the selected operating mode.



- Other Light mode for other growing requirements (Allows for custom time and dimming settings)



- Flower Light mode for flowering plants (Suitable for growing seeds and seedlings and plant maintenance)



- Herbs Light mode for herbs (Basil, rosemary, mint, dill etc.)



- Lettuce Light mode for salad leaves (Chicory, kale, parsley etc.)



- Dimming Choice of dimming level.

Controller Overview

Mode	ON (hours)	OFF (hours)	Default Dimming level
Other	24	-	10
	20	4	10
	9	15	10
Other	6	18	10
Flower	12	12	8
Herb	18	6	10
Lettuce	16	8	10

Modes (Other, Flower, Herb, Lettuce)

1. Press the chosen mode button for 1 second. The red LED indicator will flash once to indicate that the mode has been selected. After this, the red LED indicator will shine constantly to indicate the selected mode.
2. If you want to change a mode, repeat step 1. The timer will change to the other preset.
 - The remaining time is stored automatically. The selected mode and remaining time is retained even after a power failure.
 - See table below for lighting times for each mode.
 - The "Other" mode is preset to 24 hours of illumination.
 - The setting is stored in 2 seconds after mode selection.

User selection (Other)

The preset mode is 24 hours lighting mode.

1. Press the Other mode button for 8 seconds.
2. The LED indicators blink repeatedly, now you can change the time schedule:
3. Use the DOWN button to reduce the number of hours. Default 24 hours. Every click DOWN is -1 hour. Use UP button to increase by 1 hour. The red LED's will show you how much time is programmed.
4. After 10seconds of not touching the controls the user setting will be programmed. The timer will now go back to the operational mode.

Dimming

Press the UP or DOWN arrow to change the light intensity.
The setting is stored in 2 seconds after the lighting level is selected.

Light levels and pulse

The M10/M20 uses pulse technology to control light intensity. The 200 μ s pulse stimulates plant growth and reduces power consumption.

Light Intensity

The light intensity measured at 200mm height.

Dimming [Level]	1	2	3	4	5	6	7	8	9	10
Intensity [μ mol]	20	40	65	90	115	140	165	190	215	225

The product is factory set at level 10 for all lighting modes except for the "Flower" mode, which is preset to level 8.

- Level 1 ~ 4: Suitable for keeping
 Level 5 ~ 7: Suitable for slow growth
 Level 8 ~ 10: Suitable for fast growth

