UKAL

UKAL TECH SELECTION

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UKAL.com

UKALTECH

UKAL TECH is the new branch of UKAL dedicated to technical and innovative products requiring support and advice from our experts. This division adapts to the specificities and constraints of breeders, their animals and their farms. Our aim is to meet their new expectations by offering expert and tailor-made solutions to improve production, the quality of life production, the quality of life of farmers and animal welfare. We focus on innovation and digitalization of farms. Do not hesitate to contact the dedicated team by phone or via their website. Find here a selection of UKAL TECH articles.

NEW

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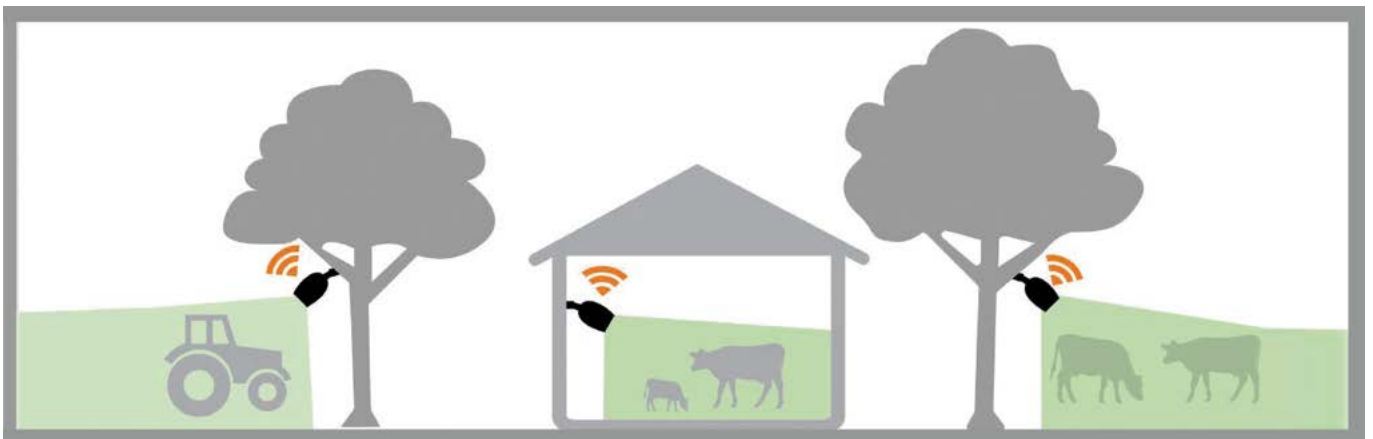## CAMERA FARMCAM MOBILITY S 4G   LUDA FARM

Where you have 3G/4G network coverage, you can set up FarmCam Mobility S. The camera has a motion detection sensor that will register and record activities that appear in front of the camera, and can record on the included 32 GB memory card. The camera comes with a pre-installed Nano SIM card. By activating the FarmCam Mobility S SIM-card in My.Luda.Farm you get a 1 GB free trial for 30 days. After the trial there are three subscriptions* to choose from: Small (0.1 GB), Medium (0.25 GB) or Large (2 GB). You can decide which subscription will suit you based on your consumption during the 30-day trial. You can activate and deactivate the subscription according to your needs on a monthly basis. The camera detects movement optimally when the object moves across the sensor detection zone. The PIR (passive infrared) sensor is triggered by changes in temperature in front of the camera. **The camera has a 16x digital zoom and 2560 x 1440 video resolution, giving you razor-sharp images in Full QHD quality (almost twice as sharp as Full HD).** FarmCam Mobility S has three power supply options. The camera can be powered by 230 V or the Luda.Farm solar panel during warmer months and sunshine.

Included in the package: 1 x FarmCam Mobility S camera. 1 x 1.5 m IP44 power adapter cable. 1 x Screw kit. 1 x Rubber protection. 1 x Rechargeable battery. 1 x Micro-SD card 32 GB. 1 x Nano SIM card pre-installed. 1 x Camera mount. 1 x Rubber mount. 1 x Screw pattern. 1 x Reset pin.

Sku. LUD1115	Farm Cam Mobility S 4G	7 350030 455336
Sku. LUD1091	Luda SolarCharger FCM	7 350030 454773

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FARM CAM MOBILITY 4G

LUDA⏻FARM

Through its 3G/4G connection and rechargeable battery you can place FarmCam Mobility wherever there is mobile network coverage. Works Anywhere – Anytime. **FarmCam Mobility is the perfect surveillance solution in places where you don't have power or Wi-Fi connection**. Thanks to the rechargeable battery and SIM-card, you can monitor your property, machines, animals, etc. in remote areas. As long as you have mobile network coverage, you can setup the camera wherever you need it. Used together with the SolarCharger FCM you will not even have to think about recharging the battery. In other words, a truly mobile surveillance camera. The Smart Motion Sensor will register and record activities that appears in front of the camera. When the camera registers an activity, you will be informed through a notification in your smartphone or by e-mail. By distinguishing warm objects from tree branches that move in the wind, rain, flies, etc. the Smart Motion Sensor eliminates false alarms and ensures you are alerted to genuine situations. Other useful features that come with the camera are Zoom, Night Vision, Alarm and Two-Way Audio (mic/speaker). If the camera detects trespassers, you can act by talking to them directly or scare them off by triggering the Alarm function of the camera. Features:

- Use it wherever you have 3G/4G network coverage.
- Rechargeable battery, lasting up to 2 months depending on usage.
- SIM-card that automatically chooses the strongest network included. No settings needed: just Plug-n-Play.
- Rain/sun, day/night - place the camera wherever you want without worrying about the weather.
- Smart heat and movement sensor ensures you are alerted to genuine situations and eliminates false alarms.
- SD-card included for recording of motion events which you access through the FarmCam 2.0 App in your smartphone.

Solar panel for LUDA FARMCAM MOBILITY 4G and 360S

Sku. LUD1086	Farm Cam Mobility 4G **Limited stock**	7 350030 454636
Sku. LUD1091	Luda SolarCharger FCM	7 350030 454773

NEW

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CAMERA FARMCAM 360S

LUDA⏻FARM

Motorized Wi-Fi surveillance camera **with a 360° overview. FarmCam 360S is a mobile surveillance camera for both indoor and outdoor use that can cover 360 degrees.** The camera has a 16x digital zoom and a 2560×1440 video resolution, which gives you razor-sharp images in Full QHD quality (almost two times sharper than Full HD). FarmCam 360S can be powered by 230V or a Luda.Farm solar panel during warmer months and sunshine, plus temporary with its built-in rechargeable battery when needed. The camera needs Wi-Fi/Internet access for set-up and to be able to view live video in the FarmCam 2.0 App on your smartphone and tablet. The App is free of charge. It has dual-band functionality, which allow users to operate on both the 2.4GHz and 5GHz frequency band for maximum speed and efficiency. FarmCam 360S has motion detection alarm and can record on the 32GB memory card (included) upon motion detection and sends you a notification in the App on your phone or tablet. You can pan, tilt and zoom the camera in the App. FarmCam 360S has night vision, alarm plus microphone and a speaker with talk-back function built-in the camera. In the FarmCam 2.0 app you can talk with the person in front of the camera or use a recording of your voice to scare off an intruder.

- **Zoom numérique x16**
- 32GB memory card included.
- 2560×1440 QHD video resolution
- Microphone and a speaker with talk-back function
- Weatherproof to IP64
- Night vision (10 m)
- **Lens with a 122-degree field of view**
- Dual-band 2.4GHz and 5GHz functionality
- 230 V power adapter included. Can be operated on 230 V or temporarily with the built-in battery and Luda solar panel for the sunniest months.
- PIR motion detector with recording and alarm function.

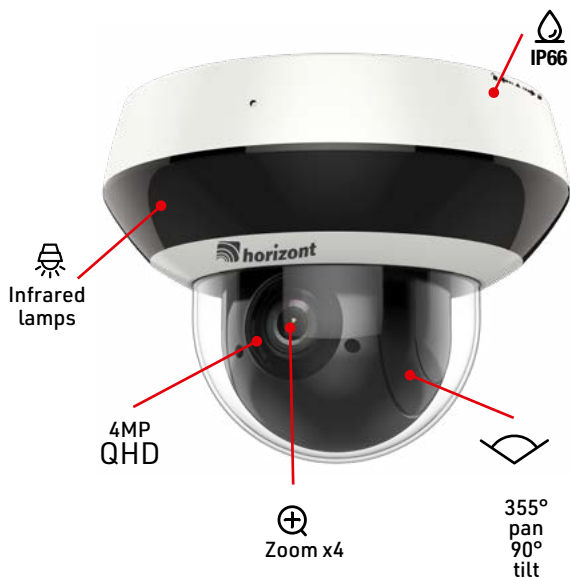|		
Sku. LUD1116	FarmCam 360S	7 350030 455343
Sku. LUD1091	Luda SolarCharger FCM	7 350030 454773

farmCam 360

The UKAL-Horizont group has chosen to make its know-how and technical experience available by developing a new segment dedicated to farm building and livestock surveillance.

To put together its new range of security cameras and accessories, the horizont group has worked with a long-standing partner specialised in the field and known for the high quality of its products.

High-performance cameras offering some of the best viewing angles on the market.

IP66

Infrared lamps

4MP
QHD

Zoom x4

355° pan 90° tilt

Système DORI

Detect	Observe	Recognise	Identify
180 m	71m	36 m	18 m

4MP QHD

White light

Accusense

112

IP67

Système DORI

ColorVu

Detect	Observe	Recognise	Identify
53 m	23 m	11 m	2 m

NEW

horizont

2 Warranty

-

VISION 360°
CAMERA 360°

Security camera for protecting and securing premises (industrial buildings, warehouses, farm buildings, etc.). It provides extensive coverage and a zoom function for more detailed images. Users can see what is happening **from any angle**, in the smallest detail, at any time.

Specification:

Use in standalone mode or with the compatible recorder
PoE /12V DC
Micro SD card up to 256 GB optional
Infrared projector 20 m
Resolution: 4 megapixels 2560 x 440
Built-in microphone
Control with the Horizont-Live app (for iOS or Android)
0 to 355° pan
0 to 90° tilt
Optical zoom x 4 (digital x 16)
This kit contains: the camera and the mounting screws

Sku. HOR100122

3 700393 977817

NEW

horizont

2 Warranty

-

VISION COLOUR
SMART NIGHT VISION CAMERA

Smart security camera for protecting and securing premises (industrial buildings, warehouses, farm buildings, etc.). Features AcuSense technology for smart detection of vehicles and people and **ColorVu technology for colour night vision**.

Specification:

Use in standalone mode or with the compatible recorder
PoE /12V DC
Micro SD card up to 256 GB optional
White light projector included 40 m
Resolution: 4 megapixels 2,688 x 1,520
Control with the Horizont-Live app (for iOS or Android)
Pan 112°
Tilt 61°
This kit contains: the camera and the mounting screws

Sku. HOR100121

3 700393 977824

NEW

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CAMERA 360 ZOOM PRO

horizont

3 Warranty

Professional surveillance camera for building protection and security (industry, storage facilities, farms, etc.). It provides extensive coverage and can be zoomed in for greater detail.

Specification:

25× optical zoom and 16× digital zoom 25× optical zoom and 16× digital zoom provide close up views **over expansive areas**
High quality imaging (4 millions pixels)
Focuses on human and vehicle targets classification based on deep learning(AcuSence 2.0)
Excellent low-light performance with powered-by-DarkFighter technology
Stand-alone or **compatible** with **PoE 802at/ DC12V recorder**
Optional **micro SD card up to 256 GB**
Expansive night view with up to 100 m IR distance
Management via the horizont-live application (iOS & Android)
Viewing angle: 55° to 2.4°
Panoramic rotation: 360°
Tilt: -15° to 90°

Sku. HOR100124

3 700393 983023

Système DORI

2400 m	952 m	480 m	240 m
Detect	Observe	Recognise	Identify
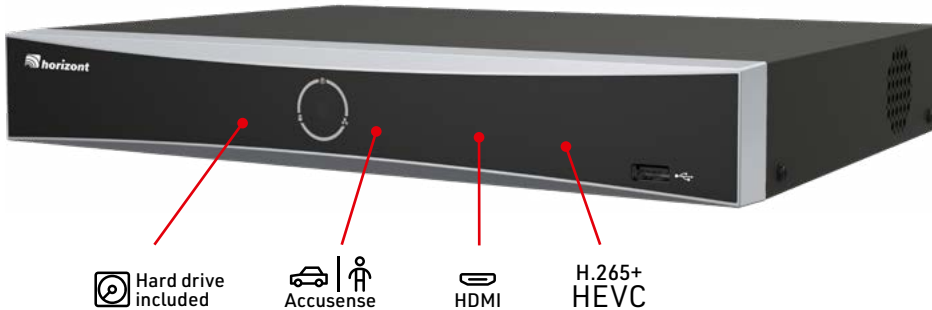
Hard drive included	
Accusense	HDMI	H.265+ HEVC

LED indicator lights

-30°C +70°C

NEW

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VISION NETWORK VIDEO RECORDER
SMART VIDEO RECORDER

horizont

2 Warranty

4-channel video recorder for optimum surveillance of your buildings.

Specification:

Very high definition up to 12 million pixels
VGA output and HDMI 4K
Up to 4 IP cameras (PoE)
Control with the Horizont-Live app (for iOS or Android)
Smart, simple, user-friendly interface
Live viewing on a smartphone or computer
This kit contains: hard drive, HDMI cable, mouse, network cable

Sku. HOR100111

3 700393 977831

NEW

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VISION BRIDGE
WIRELESS BRIDGE

horizont

2 Warranty

The wireless bridge provides a remote, wireless connection with a range of 5 kilometres in a totally clear area.

Specification:

5 GHz / 867 Mbps
Range up to 5 km
Built-in 12 dBi 2*2 MIMO antenna
IEEEE 802.11 ac standard
1*10/100/1000 Mbps LAN
1*10/100/1000 Mbps Passive PoE LAN
Operating angle 40° horizont / 15° vertic
This kit contains: wireless bridge, PoE adapter, 12V power supply, 2 plastic ties, installation instructions

Sku. HOR100101

3 700393 977602

CAMERA KITS

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We have developed a series of camera kits ready for you to sell in store that will meet the majority of your customers' needs.

NEW

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WIRED KIT 1 CAMERA

Kit contains:
• NVR recorder
• Vision Colour camera

Sku. HORKIT100100

3 700393 981456

NEW

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WIRELESS KIT 1 CAMERA

Kit contains:
• NVR recorder
• Vision Colour camera
• 2 Vision bridges

Sku. HORKIT100200

3 700393 981463

NEW

-

WIRELESS KIT 4 CAMERAS

Kit contains:
• NVR recorder
• 4 Vision Colour cameras
• 2 Vision bridges

Sku. HORKIT100250

3 700393 981470

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TYPICAL INSTALLATIONS

1 CONNECTION TO THE FARM BY RJ45 CABLE

FARM

Compatible with all cameras

OFFICE

RJ45 (200 m)

Min. 2 m

Internet

Live

Computer or smartphone app Internet
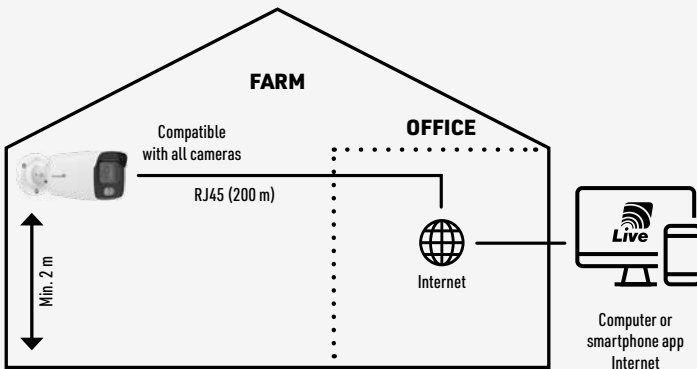
2 CONNECTION TO THE FARM VIA AN NVR BOX

FARM

OFFICE

RJ45 (200 m) Max. 4 cameras

Recorder box recorder

Min. 2 m

Live

App

Television TV

Application smartphone app / App
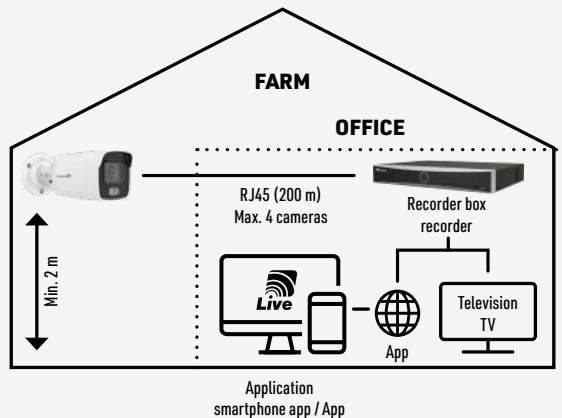
ADDITIONAL ACCESSORIES

-

NEW

-

MICROSDXC MEMORY CARD

• Directly compatible with the cameras
• Operating temperature: 0 to 70°C
• Micro-SD to SD adapter supplied

Sku. HOR100142

6 954273 689063

64 GB

NEW

-

6-PORT SWITCH

• 1 Hi-PoE IEEE 802.3at/af/bt port
• 3 standard IEEE PoE 802.3at/af ports
• 2 standard RJ45 ports
• Plug-and-Play installation
• Operating temperature: -10°C to +55°C

Sku. HOR100131

6 954273 693343

6 ports – Range: 300 m

NEW

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WALL MOUNTING

To mount the Vision 360° camera vertically on a wall. Made of polycarbonate for excellent thermal resistance and mechanical strength. For indoor or outdoor use. The RJ45 and power cables pass inside the mountinge.

Sku. HOR100123

6 954273 666408

Polycarbonate

NEW

-

MAINS POWER SUPPLY

Mains power cable for Vision Colour camera.

Sku. HOR100132

3 700393 981739

NEW

-

RJ45 CABLE

RJ45 F/UTP CAT6

• Anti-UV for outdoor use
• Colour: black

HOR100135-1	20 m	3 700393 978708
HOR100135-2	10 m	3 700393 978685
HOR100135-3	1 m	3 700393 978692

3 **CONNECTION TO THE FARM VIA A WIRELESS BRIDGE**
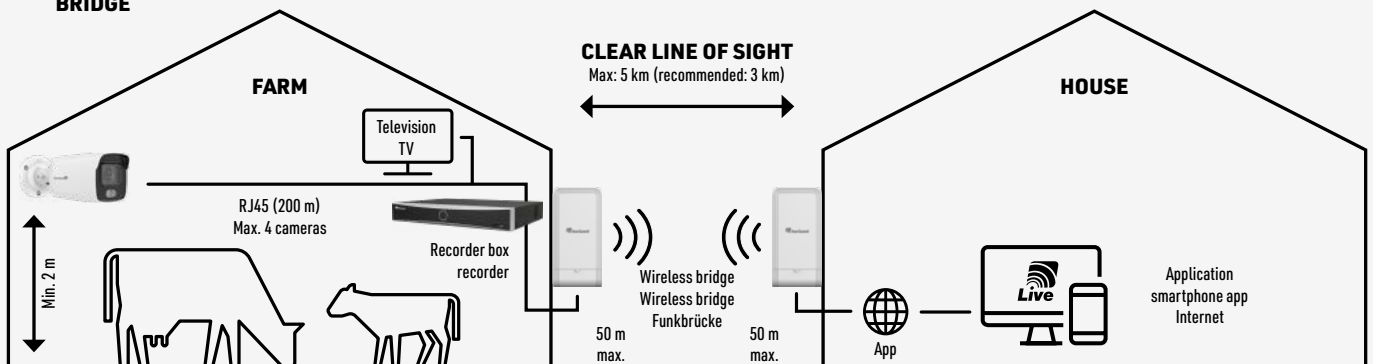
FARM

Television TV

RJ45 (200 m)
Max. 4 cameras

Min. 2 m

Recorder box
recorder

CLEAR LINE OF SIGHT
Max: 5 km (recommended: 3 km)

HOUSE

Wireless bridge
Wireless bridge
Funkbrücke

50 m max.

50 m max.

App

Application
smartphone app
Internet

Hotline Electric Fencing

–
MEADOW PUMP KIT WITH SOLAR PANEL 60 W

The complete meadow pump kit allows you to supply water to your pasture tank, avoiding water contamination by animal excrements but also stopping erosion of river and stream banks by cattle. An easy, reliable and autonomous way to provide water to livestock when watercourses are fenced off. This maintains water quality at a high level and preserves the healthy growth of local flora and fauna.

The complete prairie pump kit includes:
· 1 control box with compartment for 12V battery. BATTERY NOT INCLUDED
· 1 30 m hose with submersible pump
· 1 float switch
· 1 solar panel 60W INCLUDED

Its solar panel provides constant autonomy for this meadow pump kit. The polypropylene battery compartment is very weather resistant and can hold a 12V/85 Ah battery (not included). For optimal operation of your meadow pump, we recommend the use of an 85 Ah battery. Farmers increasingly need to keep their livestock away from waterways. The European Water Framework Directive (WFD) establishes a framework for the protection of inland waters, transitional waters (estuaries), coastal waters and groundwater. River fencing provides protection against bank erosion. Solar battery-powered meadow pump kits can be integrated into all common drinking troughs. The solar pump provides the animals with their water needs without having to change or recharge the battery (depending on storage density, weather conditions, etc.). These kits are simple 12 V pumping systems based on water pump technology to allow the transfer of large quantities of water. The kit is equipped with a float that activates the submersible pump when the water level drops. The pump is connected to a 30 m long hose that leads directly from the water source to the tank. The set is powered by a 12 V battery (not included in the kit) located in a weatherproof housing. We recommend an 85 Ah battery. The water requirements of the animals are very different and are influenced by temperature, humidity and type of feed, among other things. The majority of grazing animals are herd animals and want to drink together, so the size of the drinking trough should allow for this. By increasing the height, the pumping capacity is reduced. At a height of 10 m the pump is running at about 65% of its maximum performance. The charging times of the solar energy vary according to the weather conditions. Keep in mind that in summer the water needs of the animals increase. The water requirements are indicative. Make sure to follow the instructions for use.
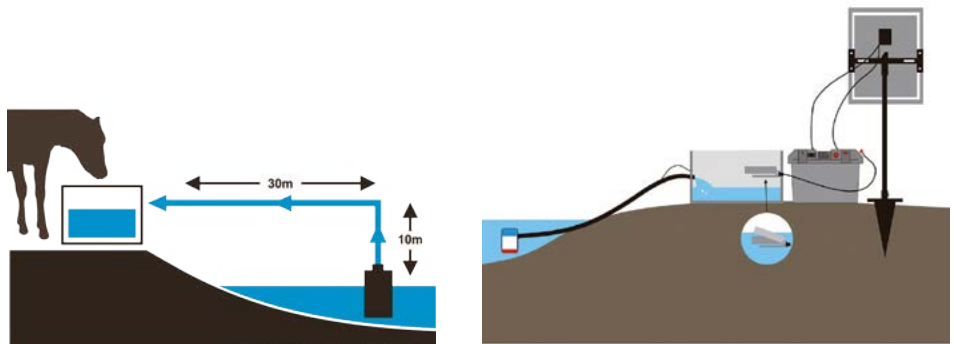
Sku. 119150	Meadow pump kit with solar panel	3 700393 920660

1 + 2 + 3

30m
10m

MEADOW PUMP KIT WITH HOSE AND FLOAT

Hotline Electric Fencing

The complete Meadow pump kit includes: 1 control box with compartment for 12 V battery (battery not included), 1 30 m hose with submersible pump, 1 float switch.

Sku. 119150001

5 021385 008400

Meadow pump kit with hose and float

SOLAR PANEL 60 W WITH SUPPORT

Hotline Electric Fencing

This 60W solar panel with support is suitable for the meadow pump kit. This element allows to gain autonomy and to ensure a permanent water supply in the pasture tank. A real economic gain!
- Highly efficient crystalline solar module
- Adjustable aluminium support
- Developed for connection to the meadow pump kit - without charge controller
- Dimensions: 685 x 670 x 35 mm.

Sku. 119150002

5 021385 009971

Meadow pump kit with solar panel

BATTERY 85 AH FOR MEADOW PUMP

Battery 85Ah ideal for meadow pump. Ready to use.

Sku. 119150004

4 250227 511414

85Ah (C100)
70Ah (C20)

Non-contractual visual

To request a personalised quote, you can contact customer service **UKAL TECH** on **03 88 90 73 93** via the ukal.com form

NEW

SOLAR PUMP

LORENTZ

This solar powered submersible water pump is ideal for pumping water directly from any source (wells, streams, ponds...). It can be used for various applications: watering livestock, irrigating crops, drinking water...
This pump works thanks to the sun, without any battery, without any other energy source.

The S1-200 system includes:
- Helical rotor pump with high efficiency DC brushless motor pre-attached 15 m (50 ft) motor cable to plug into the controller
- S1-200 mini controller with accessory inputs for dry run protection and tank full switch
- PV module adapter to use any standard PV module (max. 55 VDC)

Additional accessories required (not included):
- Solar panel 120W: ref.119150105 *2
- Floats: ref. 119150140

Other complementary accessories (not included):
- Pump extension: ref.119150141
- Probe extension: ref.119150142

Sku. 119150130	Depth: up to 18 m Water volume per day: up to 23 m³/d	3 700393 977718
Sku. 119150120	Depth: up to 27 m Water volume per day: up to 14 m³/d	3 700393 977787
Sku. 119150110	Depth: up to 40 m Water volume per day: up to 7 m³/d	3 700393 977770

LORENTZ

NEW

–
FLOATS FOR LORENTZ SOLAR MEADOW PUMPS

Two floats for LORENTZ solar meadow pumps for dry run protection and automatic tank filling monitoring (Tank Full Switch).

Sku. 119150140

3 700393 977725

Dry Run Protection :
15 m Tank Full Switch
: 10 m"

LORENTZ

NEW

–
MOTOR EXTENSION CABLE 20 M FOR MEADOW PUMP

Cable with plugs to extend the motor cable on S1-200 systems. The S1-200 Motor Extension Cable is used to extend the motor cable on S1-200 pump systems. The cable has two 3-pin male and female push lock/ twist type connector.

Sku. 119150141

3 700393 977732

20 m

LORENTZ

NEW

–
SOLAR PANEL FOR LORENTZ MEADOW PUMP

This 120W solar panel will fit perfectly with the LORENTZ meadow pumps (ref. 119150110 : ref. 119150120 ; ref. 119150130). It will generate enough solar energy to ensure an optimal functioning of these pumps and thus ensure a permanent water supply for the cattle in the pastures. Please note that for optimal use of these pumps, 2 panels of 120 watts are required, 240W of power.

Sku. 119150105

3 700393 929649

120 W

LORENTZ

NEW

–
ACCESSORY EXTENSION CABLE FOR MEADOW PUMP

Cable with plugs to extend the Tank Full Switch and Dry Run Protection. The S1 - Accessory Extension Cable is used to extend the Tank Full Switch and the Dry Run Protection cable on S1 pump systems. The cable has two M16 male and female 2-pin connectors.

Sku. 119150142

3 700393 977749

20 m

UKAL

THE LEGACY OF A PASSION

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