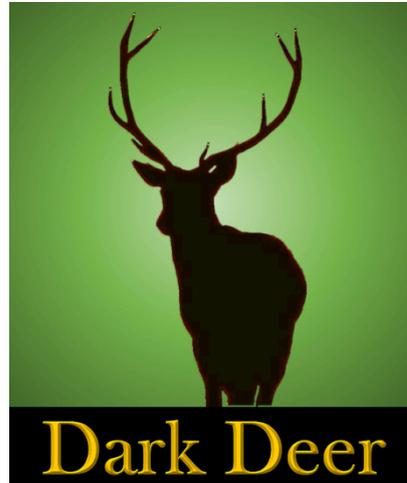


Product Overview



Dark Deer Professional Show Jumping Timing systems



Dark Deer Ltd
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Dark Deer Timers

Simple & easy to use Time after Time



For the first time, Professional Show jumping Timing systems are available for Competition centres both large and small at an affordable price

Dark Deer Timers employ a novel gate technology which makes alignment extraordinarily quick even when the gate units are 50 metres apart. The control box is very simple with clearly labelled buttons. You can simply add an external wireless LCD display so spectators can share the excitement of a jump-off.

- The package includes a control box and two sets of gates.
- It is VERY small and VERY light but accurate to 1/100th second and with all the features you need.
- Everything is wireless so there are no cables between the gate units, the control box and the display.
- The maximum distance between the gates and the control box is 120m – extendable to over 300m with the external antenna; the distance between the two gate units may be up to 50m.
- Modern Lithium Ion batteries are used giving an effective usage time of 48 hours and they can be charged with a USB cable from a USB charge station, a computer or a car. All gate units have a battery condition indicator.
- The control box can be connected to your PA system via a jack plug to sound the bell.
- The system can run Class types Tables A and C, single phase/two phase mode with an optional 45second countdown.
- Time Faults can be automatically calculated for both BS and FEI rules
- We supply an 8 x channel USB charging unit and standard tripods.
- A waterproof wireless 7 colour LED Matrix Display with 11" characters visible from a distance of 100m in bright sunlight is available so Spectators can share in the excitement
- There are as many as 8 different frequency channels to allow up to 8 sets to be used concurrently in close proximity.
- You can "cross the beams" therefore avoiding all the problems with course design when this is not possible.

Why Dark Deer Timers?

Our Timers have been used as the official timing provider at the Pony Club Inter-Branch, the Blair International Horse Trials and the British Showjumping National Championship at Stoneleigh,,,,,and they created a good impression:

- ❖ “I was very impressed, such an easy set of equipment to use & very user friendly. An excellent set of timing equipment that is sensibly priced & I would happily recommend to anyone buying”. Diane Beaumont – BS Level 4 (Median) Course Designer
- ❖ “We used Dark Deer timing in the main International arena at Blair. The Timing was Innovative, Professional and very easy to set up.” Colin Hexley BS Course Designer for Blair Athol International Horse Trials.
- ❖ “Thought it was very good, would work with it happily anytime”. Doreen Blackie Level 3 (2*) BS Judge
- ❖ “Having used Dark Deer Timing for 2 days of Showjumping and 1 day timing Eventing, I found it very easy to set up and the working of it to be very reliable and would highly recommend the set.” John Ormiston Level 4 (Median) Course Designer, Level 2 (1*) Judge

In summary:

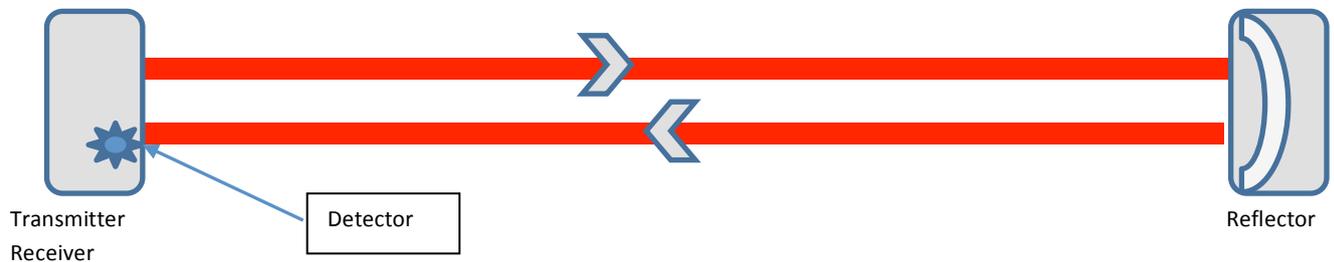
Dark Deer Timers have become the go to Show jumping Timing systems because our customers tell us our product is:

- **Modern, innovative, and uses the latest technology**
- **Half the price of our nearest Competitor!**
- **Simple to set-up, configure and use**
- **Simple, purposely designed control panel**
- **Completely Wireless and portable**
- **Reliable and with extended warranty support**

The Gates

Dark Deer Timers are based on the latest infra-red technology which makes them accurate and very quick and easy to align.

Traditional Systems



Most of the timers use a transmitter to send an infra-red beam across the horses path to a reflector as shown in the diagram above. The reflector sends the beam back to a detector in the transmitter box. When the horse breaks the beam, the detector sends a signal to the control unit. The boxes have to be aligned so that the narrow beam hits the detector exactly after being reflected. It is like trying to focus a light onto a small spot with a mirror but, because it is infra-red, you cannot see the light. Tricky, especially if the mirror is 30 metres from the spot you are trying to hit! It is not surprising that people can take up to 15 minutes trying to align these devices, they are also susceptible to wind and small disturbances.

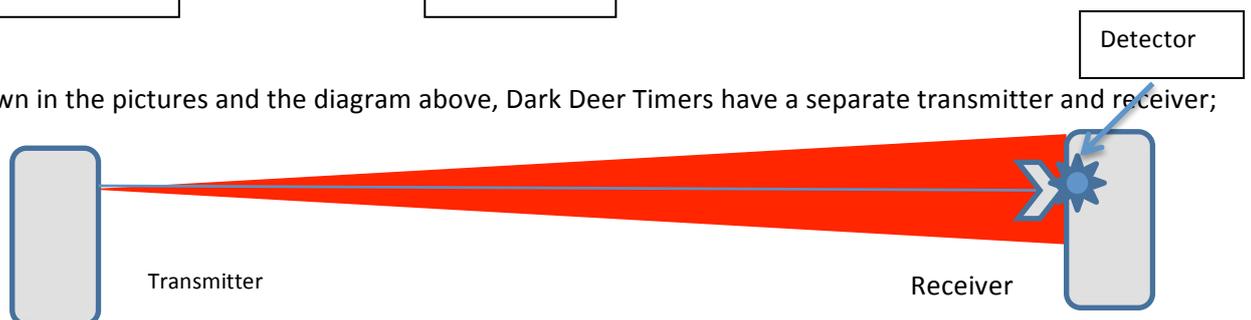
Dark Deer System



Transmitter



Receiver



As shown in the pictures and the diagram above, Dark Deer Timers have a separate transmitter and receiver;

there is no reflector. Furthermore, the transmitter sends out an infra-red beam which widens with distance, at 20 metres the cone is 1 metre wide. All you have to do is place the receiver within the "cone" of the beam and the alignment is done. At a distance of 20 metres this took 4 seconds and at 40 metres it took 20 seconds. Within the cone, the detector in the receiver responds to just that very narrow part of the beam that hits it directly shown by the arrowed line in the diagram, so there is no loss of accuracy. The system will beep if it is not aligned and send a message that is displayed on the judge's control panel.

Is there a downside? Not really, but the receiver as well as the transmitter contains 2 lithium batteries which have to be charged but being Lithium Ion they last for 48 hours between charges. All our units, gates and controllers are charged through a mini-usb port for which we can supply a suitable charger.

The Control Panel

Dark Deer Timers are easy to use but do not lack functionality. The control panel has been designed by a User Interface specialist so that people can learn to use it in 5 minutes and errors during operation are minimised.



It is no use making the gates easy to use if the control panel looks like the cockpit of a jumbo jet. Ours contains 8 colour coded buttons and a couple of switches which allows all Class types to be configured and judged as required. Everything is shown in the Display Window and the console is easy to use.

The RED "Config" button allows you to simply configure the console

- Display Brightness
- Competition type
- Time allowed/time fault calculation
- Setting Channel number
- Countdown Required or NOT?

The operator presses "Start/Stop" and "Bell" when the rider enters the arena and everything is ready. The bell sounds and the display shows "New Rider". As the rider approaches the first gate, the "Arm" button is pressed and the display shows "Waiting – S Gate". In addition, if a 45 second countdown was chosen, the display will show this countdown. If the countdown gets to zero, then the system will display "Counting" and the timing will start. Otherwise, if the rider goes through the start gate before the end of the 45 second countdown, then the timing starts when the beam is broken. The rest of the Gates are armed as the competitor approaches and the split times for each section are displayed and stored on the console as well as being shown on the Arena displays.

Lights are illuminated when a gate is armed or when the gates have lost alignment. When the latter happens, a message appears on the CP display and the lights above the offending gate are illuminated. There is a "Memory" button just in case you forget to arm the gate at the correct time, and the "STOP" button will pause the timing if the Competitor disturbs the course.

There are two connections on the console; a jack plug socket to connect to a PA system and a mini USB connection which is used for both charging and uploading new versions of the software.

At the BS National Championships Stoneleigh



Tripods

You can use any tripods which have a standard camera fitting but we can supply these if needed. We recommend tripods which contain a hook on which you can place a bag of water or sand to keep it steady if there are very high winds. This is an alternative to using very heavy specialised steel tripods which are expensive and you have to carry the weight even on calm days.



We supply a range of tripods though you can purchase these yourself if you so wish. The tripod shown on the left extends to 50" and is very light to handle. The one on the right is typical of a stronger tripod and should be chosen if your system is going to be used frequently and will be subject to rough handling. The timer box fits to the tripod using a standard camera fitting, i.e. per ISO 1222:2010, the current tripod screw thread standard for attaching the camera calls for a 1/4-20 UNC thread. Most tripods conform to this standard but some use a different thread size so be careful or ensure you also purchase an adaptor.

The 8 Channel USB Charger

The USB charger is shown below. It connects to the heads with cables having a USB "A" connection on one end and a "Mini USB" connection on the other as shown below. The model is a YIKESHU® 8-Port 40W 8A Smart USB charger and costs £20 from Amazon. The cables are £2.79 each and you need 7 if you have 3 sets of gates and 5 if you have 4 sets. We can supply them or you can order direct from Amazon. Note that you can use other USB chargers – there are plenty on the market.



Carrying cases

The Timing Heads, Console, Charging Equipment and cables can all be accommodated in a special impact protection carrying case if required.



External Display

Our external display is comprised of panels each 32cm x 16cm (12" x 6") and the standard configuration is 3 panels wide by 2 panels high measuring 96cm x 32cm (3' x 1'). However, you can order whatever size you require (within reason!) and as the panels contain a matrix of LED's, you can display numbers, letters and even simple graphics. The standard display colour is red but you can choose from red, yellow, magenta, green, blue, white and cyan using a button on the side of the display.



The display is waterproof and strongly made. It is powered either by a mains power supply if you wish to attach it permanently or by 12V DC from a leisure battery. As the display is wireless you can move it around the arena as long as it is within 150 metres from the control panel. You can also use multiple displays as they will all receive the same wireless signal and therefore be automatically synchronised.

The standard configuration has 28cm (11") high characters but the larger displays can display much bigger characters if needed. The standard configuration is ideal for arenas up to 100 metres in length.

A larger display is shown below. Note that the time is displayed in a large font and the rider and horse's name are shown below in different colours. This display has been mounted in a frame but could equally well be suspended against a wall. It measures 128cm x 96 cm (4' x 3') and is clearly visible at well over 100 metres. "Showmanager", our own integrated Show Management software, integrates with the timing and the small and large displays, to provide the Rider and Horse names



Prices and Terms & Conditions

The prices shown below are subject to change. While we try and keep them stable, we are at the mercy of commodity and labour costs.

Description	Price
Basic A7 Starter System comprising one control panel and two sets of gates	£ 1,140 + VAT + P&P
A third set of gates to enable single two phase competitions	£ 450 + VAT + P&P
Bundled A7 starter Set (2 pairs of Gates) with tripods & charger	£ 1,450 + VAT + P&P
Bundled multi-phase (3 pairs of Gates) with Tripods & Charger	£ 1,900 + VAT + P&P
Standard (96cm x 32cm, 10mm p.p.) Display 7 colours	£ 995 + VAT + P&P
Impact protection Carrying case	£ 175 + VAT + P&P

Description	Size	Price
LED Display: Basic, 7 colours	96cm x 32 cm – 3' x 1'	£ 995 + VAT + P&P
LED Display: Large, 7 Colours	128cm x 96cm – 4' x 3'	£ 3,900 + VAT + P&P

We can produce LED Displays in bespoke sizes – please ask for a quotation.

All items are covered by a one year parts and labour guarantee. Items must be returned to Dark Deer Croft for repair or replacement. After the initial warranty you can purchase Extended Warranty for the following costs:

Timing system No display £ 150 plus VAT

Timing system with a Standard Display £ 300 plus VAT

If you would like a full comprehensive quotation please call us on 0333 445 9966 or email us at info@darkdeer.co.uk

VAT is charged at the current rate.

Postage and Packing are charged separately.

We build products to order and ask for payment with order.

