

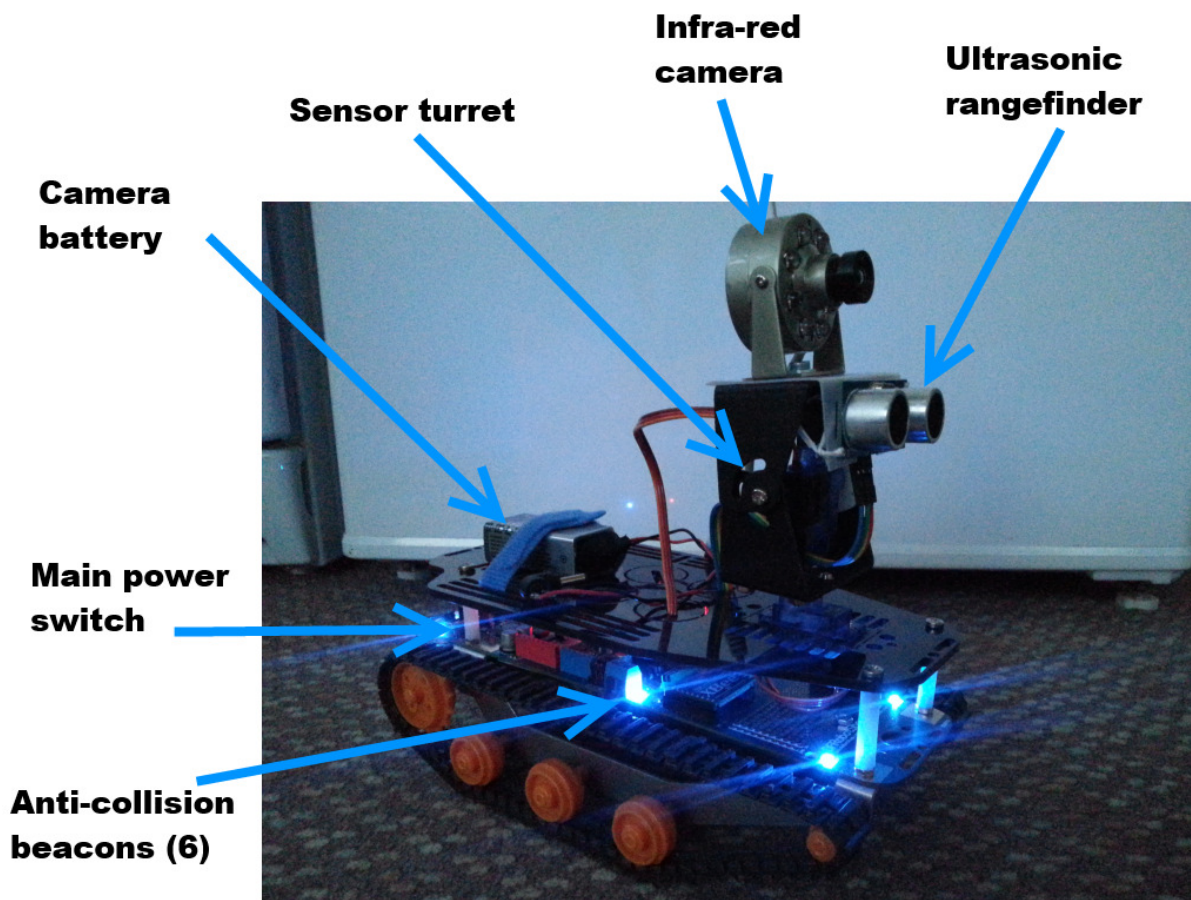
TempEx 1

Remotely-operated Temple Explorer

Congratulations on your purchase of a TempEx 1 remotely-operated temple explorer, another fine product of Yellow Sun Heavy Industries. Careful comprehension of this manual will ensure you get years of reliable service and exhilarating temple exploration.

Overview

TempEx is a precision instrument, allowing for the safe exploration of unknown areas. Its primary features are described below:

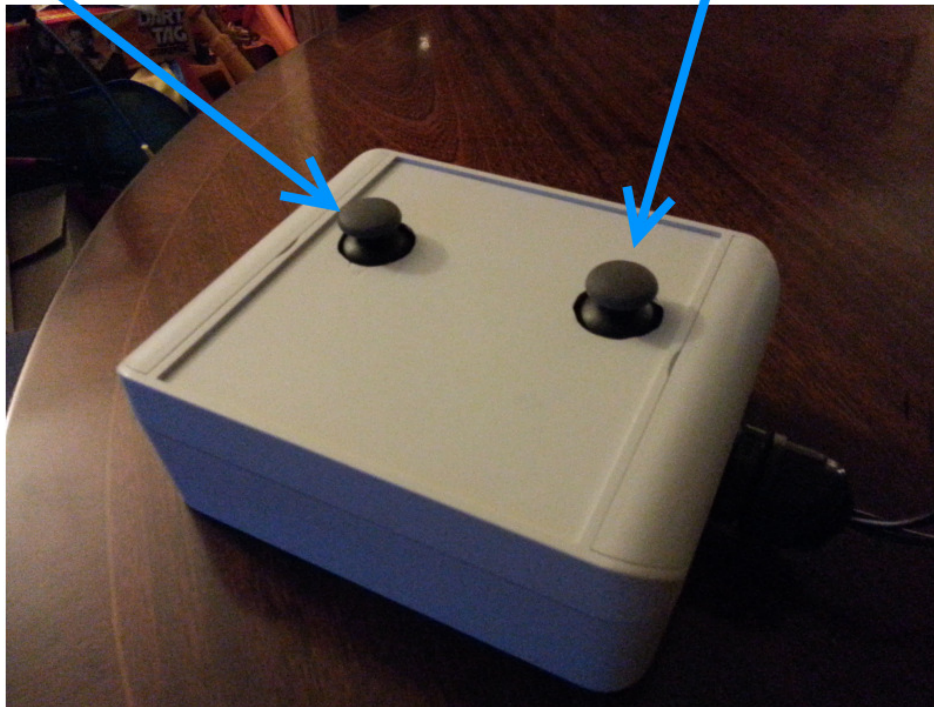


- The anti-collision beacons are intended to facilitate combined TempEx/human operations. Dropping, stepping on, or kicking TempEx is **strictly forbidden** and will void your warranty.
- The main power switch is situated at the rear right of the unit. The anti-collision beacons will turn on when power is applied.
- TempEx is equipped with an infra-red camera that has its own battery which must be connected before use.
- TempEx also has an ultrasonic rangefinder, which reduces the risk of unintended interaction with immovable objects.
- The camera and rangefinder are mounted on a steerable turret.

The controller is designed to offer intuitive control over TempEx:

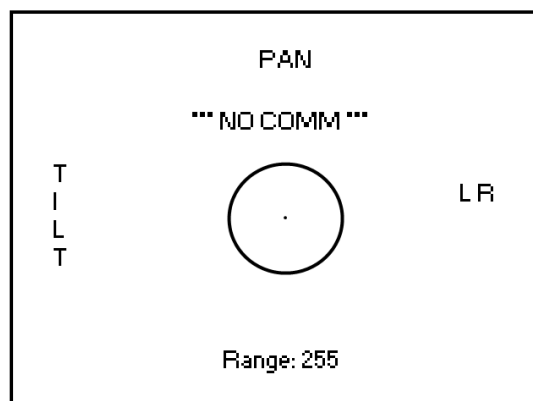
Direction Control

Sensor Turret Control



Concurrent operation of both controls is possible, but not recommended. For best performance, stop TempEx before steering the sensor turret. Do not move the turret control rapidly – wait for a command input to be answered (i.e., wait for the turret to move) before giving another.

The control unit is connected to the camera receiver and a TV display unit. The display unit must be set to display the “AV” source, and the receiver must be tuned before a picture can be displayed (NB – TempEx will only operate if a picture is being received from the camera). The controller overlays a heads-up display onto the screen as depicted below:

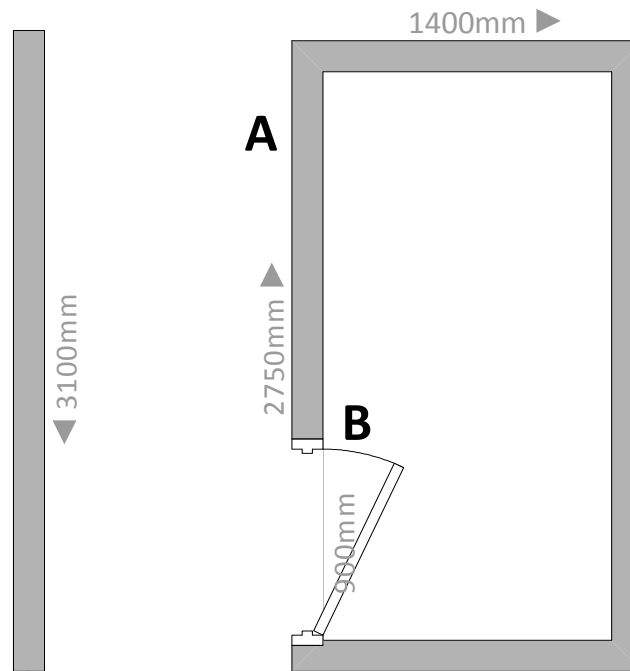


The pan and tilt indicators display the command inputs from the turret control. The LR indicators display the command inputs from the direction control. Range to target is shown in centimetres at the bottom of the display; if this reads 255, the target is either out of range or is not perpendicular to TempEx. NO COMM is displayed if the controller cannot communicate with TempEx.

TempEx is designed for thorough exploration, sacrificing speed for endurance. Even so, TempEx will not drive forever – the operator is encouraged to make the most of the available battery reserves through efficient search patterns.

Deployment

The following procedure *must* be employed when deploying TempEx into the area of operations. In the diagram below, assume that the room on the right is the area to be explored. The operator *must* carefully place TempEx at position 'A' – only then can the operator proceed to open the door. Once the operator has ensured that there are no immediate hazards present, they may place TempEx at position B before withdrawing and closing the door.



If combined human/TempEx operations are to be carried out, **extreme care** must be exercised by the human explorer to ensure that they do not inadvertently come into contact with and damage TempEx.

Troubleshooting

- NO COMM displayed on screen -
TempEx may be turned off, have strayed out of range, or the digital radio comms may be subject to interference (TempEx will stop automatically in a NO COMM situation). Either move the controller closer to TempEx, identify and remove the source of interference, or remove obstacles between the controller and TempEx.
- TempEx drives in circles -
TempEx may have thrown a track if the motion observed does not correlate with the command inputs. Carefully retrieve TempEx from the area of operations, and re-fit the track by first locating it on the sprocket wheel at the rear before carefully stretching it over the other wheels. Take *extreme care* not to break the track.
- Anti-collision beacons off or dim –
Concurrent drive and turret use, or excessive turret use, may cause a power brownout. To rectify the issue, operate the main power switch to turn TempEx off then on again. If the beacons are dim, TempEx may be low on main battery power. Replace the main batteries.

Refer to on-site support personnel if available.