# THE DATATAG SURVEYING EQUIPMENT SYSTEM FITTING INSTRUCTIONS

# A QUICK FIT INSTALLATION GUIDE

**Thank you for purchasing the Datatag Surveying Equipment Security & Registration System.**

**When installed correctly Datatag is proven to greatly reduce the risk of the theft of equipment.**

**Please take just a few minutes to read this guide to installation.**

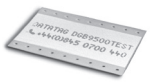
**IMPORTANT**

- Owners must register the system and survey equipment details online as soon as possible after installation.
- Your equipment is not protected until it is registered
- For advice please call: (UK) 03 450 700 440
- Datatag allows for the major and valuable components of your surveying equipment to be marked by combining state-of-the-art identification technology such as the Datadot® identification system and the new "stealth" UV chemical etching technology. This makes Datatag's award winning system one of the most successful deterrents to theft available.

**THE DATATAG SURVEYING EQUIPMENT SYSTEM INCLUDES THE FOLLOWING**


2 Ultra destruct unique Ultra Violet ID labels.

1 phial of chemical UV etching solution with applicator.



1 Unique Ultra Violet vinyl ID stencil.

1 Alcohol wipe.

1 tube of Datadots®* containing 100's of Datadots including an invisible Datatag Forensic DNA with brush applicator.

2 tamper evident visible identification labels with the unique alpha-numeric surveying equipment registration number and QR code.

NOTE this label is only found in the GAP specific Survey System.

## FITTING INSTRUCTIONS

### 1) The One Numbered Stencil and UV Etching Fluid

**Precautions before Installing - Please read carefully**

On limited occasions use of the UV etching may cause a temporary chemical reaction to areas of the survey equipment which may result in the UV mark being visible.

Such temporary UV visibility fades within a few weeks.

The chemical etching of your surveying equipment forms a major part of the theft deterrent and subsequent identification. It indicates to potential criminals that your equipment is protected and there is too high a risk of being traced if they were to steal it.

The Datatag ultra violet etching fluid will provide a robust etch into the majority of painted or lacquered metals, painted plastics, alloys and carbon fibre.

The most notable exceptions are bare metals like stainless steel, titanium and anodized coatings.

These can potentially be marked with Datadots®. However, there are many variations in paint/coating and lacquer compositions and we cannot guarantee that the ultra violet etch will be exactly the same on every theodolite or component or even similar parts of the same theodolite and in some cases it may remain slightly visible.

Customers should therefore be aware of the following:

- Where the etch does not take, it will simply wipe off.
- The UV mark is just outside the visible light spectrum and some combinations of light, angle of reflection and component colour may cause the mark to become visible.
- Although the fluid usually provides a good etch into painted or coated components, polishes or lacquers may inhibit the etching process, thus possibly reducing the depth of the etch and interactions between these surface finishes may increase the chances of the etch being visible in daylight.
- As a result, we recommend that the UV etch is always applied to discreet areas such as underside of the theodolite.
- In the unlikely event that a UV etch is visible, we recommend that the following process is taken:
- Clean and polish the area to reduce visibility
- Allow a few weeks for the UV etch to fade, which will happen more quickly if the equipment is exposed to sunlight. This will not affect the visibility of the etch under UV light.

**The Installation Procedure is as follows:-**

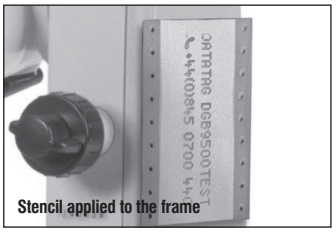
(I) Select the place or part where you wish to apply the unique numbered stencil ensuring that it is clean using the alcohol wipe provided and a dry cloth.

(II) Remove the backing strip from the stencil and apply the stencil to the area to be etched. Stencils should be pressed down firmly using the backing paper. Smooth out any air bubbles to prevent the fluid "bleeding" under the stencil when applied, ensuring a neat etch is achieved. Stencils should be left for about one minute before fluid is applied.

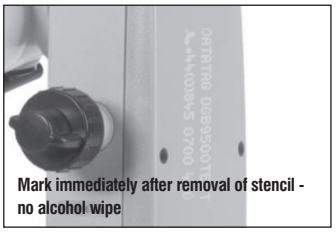
(III) Using the applicator provided, spread the ultra violet etching fluid sparingly over the unique code and the telephone contact number *(i.e. into the holes on the stencil - only enough chemical is required to fill the holes within the stencil rather than the whole of the stencil)*. Only one coat of UV fluid should be applied.

**IMPORTANT:** After 30 seconds, the stencil can be removed. There will be a white surface residue left on the etched surface which should be removed with the supplied alcohol wipe or a light solvent cleaner. Each stencil must be used only once and discarded after use.

Do not allow the UV etching chemical to run around or over the outside edge of the stencil, as it will etch into the surface of the paintwork. If this happens remove it immediately with the alcohol wipe provided.



**Stencil applied to the frame**



**Mark immediately after removal of stencil - no alcohol wipe**

**REGISTERING YOUR DATATAG SURVEY EQUIPMENT SYSTEM**
**Please go to www.datatag.co.uk/registration/ and follow the on screen instructions.**

**Datatag ID Ltd, Waterman's House, Waterman's Court, Lotus Park, The Causeway, Staines-upon-Thames, TW18 3AG**
**Tel: +44(0)3 450 700 440**
**www.datatag.co.uk**
**info@datatag.co.uk**

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# FITTING INSTRUCTIONS

## 2) The Two Numbered Silver Ultra Destruct Labels with laser etched unique code and UV Etching Fluid

**Precautions before Installing - Please read carefully**

On limited occasions use of the UV etching may cause a temporary chemical reaction to areas of the survey equipment which may result in the UV mark being visible.

Such temporary UV visibility fades within a few weeks.

The chemical etching of your surveying equipment forms a major part of the theft deterrent and subsequent identification. It indicates to potential criminals that your equipment is protected and there is too high a risk of being traced if they were to steal it.

The Datatag ultra violet etching fluid will provide a robust etch into the majority of painted or lacquered metals, painted plastics, alloys and carbon fibre.

The most notable exceptions are bare metals like stainless steel, titanium and anodized coatings.

These can potentially be marked with Datadots®. However, there are many variations in paint/coating and lacquer compositions and we cannot guarantee that the ultra violet etch will be exactly the same on every theodolite or component or even similar parts of the same theodolite and in some cases it may remain slightly visible.

Customers should therefore be aware of the following:

- Where the etch does not take, it will simply wipe off.
- The UV mark is just outside the visible light spectrum and some combinations of light, angle of reflection and component colour may cause the mark to become visible.
- Although the fluid usually provides a good etch into painted or coated components, polishes or lacquers may inhibit the etching process, thus possibly reducing the depth of the etch and interactions between these surface finishes may increase the chances of the etch being visible in daylight.
- As a result, we recommend that the UV etch is always applied to discreet areas such as underside of the theodolite.
- In the unlikely event that a UV etch is visible, we recommend that the following process is taken:
- Clean and polish the area to reduce visibility
- Allow a few weeks for the UV etch to fade, which will happen more quickly if the equipment is exposed to sunlight. This will not affect the visibility of the etch under UV light.

**The Installation Procedure is as follows:-**

(I) Select the place or part where you wish to apply the unique numbered ultra destruct label ensuring that it is clean using the alcohol wipe provided and a dry cloth.

(II) Remove the backing strip from the label and apply the label to the Theodolite. Labels should be pressed down firmly using the backing paper. Smooth out any air bubbles to prevent the fluid "bleeding" under the label when applied, ensuring a neat etch is achieved. Labels should be left and NOT removed.

(III) Using the applicator provided, spread the ultra violet etching fluid sparingly over the unique code *(i.e. into the holes on the label - only enough chemical is required to fill the holes within the label rather than the whole of the label)*. Only one coat of UV fluid should be applied.

Do not allow the UV etching chemical to run around or over the outside edge of the label, as it will etch into the surface of the paintwork. If this happens remove it immediately with the alcohol wipe provided.


## 3) Datadots ®

- Each tube contains 100's of Datadots®; each dot contains the same unique ID information.
- Datadots® should be used to protect as many parts and components on your surveying equipment as possible; even if the theodolite is broken into parts by the thieves, Datadots® can provide conclusive identification.
- Datadots® are visibly read using special magnifiers, already issued to the Police and other official organisations The Datadots® are suspended in a clear glue which may not dry to a perfect factory type "flat" paint finish therefore do not apply Datadots® to overt areas where they may look unsightly or can interfere with operation such as the lens.

Ensure surfaces are always clean and dry and free from oil or grease prior to application.

Use the Datadots®* to mark: Any suitable crevice, nook or cranny

**The Installation Procedure is as follows:-**

(I) Shake the tube well before use

(II) Using the brush supplied within the tube, paint the dots onto the parts to be marked making sure that the dots are applied sparingly.

Apply the Datadots® where they are least likely to be affected by dirt, rain, spray or regular washing.

## 4) The Unique Tamper Evident Visible Identification Labels

The surveying equipment system visible identification label is one of the most important parts of the system. This tamper evident label shows your equipment primary identification number and also contains the scannable QR code. Care must be taken when applying this label as once applied it cannot be removed.

To be fully effective the label should be installed on a flat and highly visible location on the theodolite in a clearly visible area where the QR code can be scanned. It should not be applied on structures that are easily removed or swapped, or where the label will be subject to wear and tear that will result in damage.

The additional Tamper Evident Visible Identification label with QR code should be placed on the carry case of the theodolite, following the same process as below.

**The Installation Procedure is as follows:-**

Having selected a suitable location for the label, clean the area with the supplied alcohol wipe and dry with a dry clean cloth.

Peel away one edge of the backing sheet and apply the adhesive side of the label to the prepared surface. Continue to gently peel away the backing sheet, applying the label until it is in place. Smooth out the surface of the label using a dry clean cloth, ensuring that the label is properly pressed into the surface and any air bubbles are removed.

The label is tamper evident so once applied should not be adjusted or removed. Attempting to remove or adjust the label may result in the label tearing or distorting.

The label will become full tamper evident after around 12 hours and any attempt to remove or adjust the label after this time will result in the label breaking up.

## 5) Triangular Warning Sign

Please use part number DATTHEO14SIGN to increase the theft deterrence by attaching the warning triangle by utilising suitable zip ties *(not included)* to the supporting tripod.

Please note part number DATTHEO14SIGN is a separate item and not included within the site survey security system.

DATTHEO14SIGN contents include: 1 x Weather proof vinyl 9" equilateral warning triangle with re enforced eyelets and can only be purchased with proof of purchase or registration of an existing Site Surveying Equipment Security System. Only 1 DATTHEO14SIGN allowed per site surveying Equipment Security System.


## WARNING: UV Fluid Handling & Safety Precautions

**Storage**

The fluid should be stored in cool conditions away from direct sunlight. It should be kept away from food and drink and out of reach of children.

**Spillage**

Spillage of the small quantity supplied in this system can be mopped up with tissue and disposed of with normal waste.

Handling Precautions

- Contains Dichloromethane
- Avoid contact with skin and eyes
- Do not use near a naked flame
- Harmful if swallowed
- Do not eat, drink or smoke while using

**Safety Information**

**Eye Contact** - Wash eye(s) thoroughly for at least ten minutes. Seek immediate medical attention.

**Skin Contact** - Wash off with soap and water. Product is harmless to skin but may temporarily stain.

**Swallowing** - The nature of the product makes it impossible to ingest in harmful quantities except by deliberate action. If a quantity is swallowed, seek immediate medical attention. Show these instructions to the Doctor.

**Inhalation** - If the fluid is used in the quantity supplied for its specific use, it should be impossible to inhale sufficient vapor to cause any medical problems.

As a general precaution and in the interest of safety and hygiene, always wash hands thoroughly after use.