



## Appendix B

# Installation Criteria

### Terms & Conditions for Installation and On-Site Support

**3D perception.**

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## 1.0 Summary

This document explains the needs and requirements of 3D perception pertaining to installation and On-Site Support.

## 2.0 Definitions

**“Agreement”** shall mean the signed contract or agreed Statement of work. Stated either in 3DP **“Form of Agreement”**, **“On-Site Support Work-Order”** or signed contract stipulating the terms and conditions of delivery including Statement of Work.

**“Form of Agreement”** shall mean the document described in Standard Conditions for Sale & Installation of Equipment & Software.

**“On-Site Support Work-Order”** shall mean the document listing all tasks and services to be performed by 3DP’s Field Engineers in relations to an “On-Site Support” assignment. The task may be included in the Agreement or Price Quotation.

**“On-Site Support”** shall mean the work performed by 3DP in a system with different Visual Display System components not delivered by 3DP. Or support assignment set forth in a Purchase Order from the Buyer asking for on-site assistance with an already delivered and installed 3DP visual display system.

**“Installation”** shall mean work to be performed by 3DP where as 3DP is the sole deliverer of all hardware & Software pertaining to the visual display system, excluding Image Generators and control PC.

**“3DP”** shall mean 3D perception.

**“Field Engineer”** shall mean 3DP’s designated personnel tasked to perform the work.

**“Work”** shall mean the work to be carried out by the Seller pursuant to the Scope/Statement of Work, On-Site Support Work-Order or Form of Agreement, including the Services.

**“Site”** shall mean the place where the System is to be installed or services will be performed by 3DP, including as much of the surrounding area as is necessary for unloading, storage and internal transport and completion of the Services.

**“Deviation Report”** shall mean the report given to the Buyer if any work, services or products deviates from the **“Agreement”**.

**“In Writing”** shall mean communication by document signed by the parties or by letter, courier service, or telefax, electronic mail and by such other means as are agreed by the parties.

**“IG”** shall mean the Image Generator (not provided by 3DP).

“**Design File**” (CVD) shall mean the designated virtual design of the Visual Display System made by 3DP in nControl software.

“**Commencement date**” shall mean the date 3DP Field Engineer will be on site.

## 3.0 Installation criteria

### 3.1 Working hours

A normal working day is first shift, 8 to 10 hours a day, Monday through Friday with a half an hour lunch break. 3DP will work an abbreviated shift on Saturday. For programs which include screen finishing, we require 15-hour work days. If this is not possible, 3DP must be advised of optional working hours at least 30 days prior to *Installation* or *On-Site Support*.

### 3.2 Insurance

Field engineers are insured by a private insurance company. The Buyer must notify 3DP’s Manager of Professional Services or designated 3DP Point of Contact, if documentation of insurance is required. If no request for documentation has been submitted prior to commencement of *Installation* or *On-Site Support*, 3DP will assume that no such documentation is needed.

### 3.3 Safety regulations

The Buyer must provide 3DP with all rules and regulations of safety related to the site. These regulations must be provided prior to *Installation* or *On-Site Support commencement date*. 3DP Field Engineers cannot perform any task that breaches US, Norwegian, or local labor laws. If 3DP Field Engineer detects any violation of US, Norwegian, or local labor laws, or exposed to any hazardous health risks, the Field Engineer will leave site after delivering a *Deviation Report* to the Buyer, explaining the root cause.

### 3.4 Security clearance

If 3DP personnel are required to have specific security clearance, the Buyer must inform 3DP’s Manager of Professional Services at least 4 months prior to *Installation* or *On-Site Support commencement date*.

### 3.5 Visa and invitation letter

If 3DP Field Engineers are required to have any labor clearance to enter the country, an invitation letter must be sent by the Buyer to 3DP’s Manager of Professional Services at least 4 months prior to *Installation* or *On-Site Support commencement date*.

### 3.6 Access and communication

The Buyer must provide permission for 3DP Field Engineers to use their own PC’s and mobile phones on site. If they are not allowed to do this, arrangements for other means of communication with 3DP home office must be provided by the Buyer and must be specified prior to *Installation* or *On-Site Support commencement date*.

It is the responsibility of the Buyer to provide 3DP's Field Engineers with all necessary key cards and ID badges.

### 3.7 Buyers deliverables

The Buyer must ensure that all Buyers and dependent 3rd party deliverables are on site before *Installation or On-Site Support commencement date*, unless otherwise stated in the *Agreement*.

### 3.8 Unloading and storage

The Buyer is responsible for arranging a suitable delivery area for unloading all equipment and tools. This area shall be in the immediate surroundings of the site. Buyer shall provide on-site security to guarantee the safe keeping of all equipment and tools utilized by 3DP and 3DP designated third parties, until completion of the *Installation or On-Site Support*. All equipment shall be stored on site in a clean secure and dry location until the site is ready and 3DP can start the *Install or On-Site Support*. The customer must provide a staging area to unpack any large equipment such as, but not limited to, screen segments.

### 3.9 Site readiness

Before 3DP Field Engineers can start the *Installation or On-Site Support*, all construction work needs to be completed and the space must be free from dust/dirt.

During installation/screen finish, the temperature should be 18° (+/-5°) deg. C, and the humidity at 50% (+/- 20%)

Before 3DP Field Engineers can turn on any 3DP Equipment, the Buyer must ensure that the air conditioning system is installed and running at the given environmental conditions for the installed display system components. The site must maintain the air temperature and humidity within the operating range of 3DP projectors and other 3DP electronic equipment.

The site must be locked during lunch breaks or whenever 3DP personnel, or Buyer's personnel, are not present. This is the responsibility of the Buyer.

### 3.10 Site Survey

The Buyer is responsible for conducting a Site Survey prior to *Installation or On-Site Support*, to verify that the site fulfils all requirements according to this document.

### 3.11 Facilities

They Buyer must inform 3DP Field Engineers of access to restrooms, a room/space with a desk and a chair to work and communicate with home office, name and password to accessible internet connection.

### 3.12 Drilling

3DP's Field Engineers must, on short notice, have access to a building manager with the necessary mandate to judge any operations concerning the building such as; drilling holes for cables, fastening projector mounts in the ceiling, drilling in the floor to secure the screen, etc. Full contact details regarding this building manager or relevant Point of Contact, must be provided prior to the *Installation or On-Site Support commencement date*.

### 3.13 Electrical

The Buyer shall provide all electrical interfaces identified and required for 3DP supplied equipment, unless otherwise agreed and included in the *Agreement*.

The Buyer must ensure that all electrical circuits are available for 3DP equipment and inform 3DP as to the number and type of electric sockets and voltage available on-site.

The Buyer must provide a building drawing indicating the positions of all electrical outlets. It is the Buyer's responsibility to ensure that all electrical circuits are powerful enough to handle the energy consumption of the equipment to be installed.

It is the Buyer's responsibility to ensure that the space has a stable and reliable electrical power supply, and that the electrical system has a functioning ground.

The Buyer must ensure that there are enough power outlets for the equipment to be installed, and that the outlets are in the correct place. Each room should have at least one outlet extra for service and maintenance purposes.

### 3.14 IG settings and personnel

The simulator IG must be running, and contain the field of view settings from the 3DP nControl design file (CVD).

The Buyer must ensure the IG's can deliver specified resolution (number of pixels) to give a 1:1 signal transfer.

The Buyer must ensure that the IG's are running compatible graphics cards and drivers. It is the Buyer's responsibility to ensure that the IGs are running the correct refresh rate at 60 Hz and delivering the correct field of view.

IG's must be running with a VESA compliant signal. It is the Buyer's responsibility to ensure the IG's are sending a compatible digital signal output and that, gamma, color; contrast and brightness settings are the same as nControl Software.

The Buyer must ensure that detailed video timing information provided by the IG is available.

The Buyer must ensure that a qualified IG operator personnel is present and available during the *Installation or On-Site Support*.

### 3.15 Tools

3DP Field Engineers will provide all tools necessary for working with 3DP deliverables, (other than those listed in the CFE/CFI section). These tools are typically shipped prior to *Installation* or *On-Site Support*.

It is the Buyer's responsibility to provide one tall step-ladder and one cherry picker, unless otherwise agreed in the *Agreement*. If additional ladders, lifts and scaffoldings are needed, 3DP's project manager will inform the Buyer of the specific equipment needed.

### 3.16 Customer Furnished Equipment/Information (CFE/CFI)

The following Customer Furnished Equipment/Information CFE/CFI is required at the installation site:

DELIVERABLE	DELIVERY DATE
Facilities data including dimensions of the simulator room (including any primary and secondary ceilings/floors) and distances from computer racks to simulator area.	Within 2 weeks of contract award.
Proximal power outlets with appropriate power supply for nBox units, projectors, screen, and optical blenders as needed.	3DP arrival at installation site
Simulator environment shall be free of air-borne particulate that could impede screen finishing/painting.	3DP arrival at installation site
Simulator environment with sufficient light control including covering of any light sources within, and blackout drapes on any exterior windows.	3DP arrival at installation site
Vibration-free, and even-leveled surfaces for screen and projector/enclosure structure mounting.	3DP arrival at installation site
Engineer capable of making adjustments to the Image Generator's channel Field of View throughout the installation.	3DP arrival at installation site.
Any applicable simulator cabin (and/or other objects to be installed inside visual dome) available to move into final place for shadow testing.	At the start of image adjustment.
Designation of eyepoint location within the simulator bay.	3DP arrival at installation site.

Should CFE not be delivered on the required dates and this affects the 3DP's ability to perform the contract, an Engineering Change Proposal (ECP) will be prepared by 3DP and submitted to The Customer.



### 3.17 Delay

All delays which fall outside of the scope of 3DP and are not directly caused by 3DP will be invoiced at normal 3DP T&M rates.

Should 3D perception's installation team arrive on site on the scheduled date and the CFE is not ready due to no fault of 3DP, 3DP will charge T&M rates for the staff to remain on site until the CFE is ready. If the 3DP crew is directed by The Customer to return home until the CFE can be delivered, or if the 3DP team cannot wait on site, time and material rates will be charged for the travel to and from site.

The installation schedule will need to be reconfirmed based on 3DP's installation team availability with no liability to 3DP on what new dates are scheduled.