EQUIPMENT

The Print Studio is located at the core of Dundee Contemporary Arts.
490sq. metres of floor space houses the latest, state of the art equipment in printmaking, photography and computer digital imaging which, with available staff expertise, enables artists to work across media on large format prints. Smaller scale, traditional print and low tech facilities ensure that beginners never feel out of their depth or intimidated by sophisticated technology. The studio is a marriage of old and new, of tradition with new technology and the latest technical developments within print.

Below is a list of the main pieces of equipment available through the studio. In addition, there is a full complement of sundry kit for use with this equipment. Other materials, such as printing paper are available for sale.

What equipment is available?
The studio equipment is divided into four main categories:
1. Printmaking
2. Photo-processing
3. Digital Imaging
4. Photography

1. PRINTMAKING

The studio has the best printmaking equipment for a diverse range of end user needs. The latest large format, motorised, pressure assisted and pneumatic machinery makes it possible for users to work with ease across the traditional print disciplines. Smaller scale, low-tech facilities ensure that beginners never feel out of their depth or intimidated by sophisticated technology.

***Praga* multi purpose motorised printing press**
Printing bed size 150 x 225cm (60 x 90 inches)
An extra heavy-duty machine with adjustable upper roller to facilitate printing large scale etchings, lithographs, relief prints, monotypes and collographs. Micrometer pressure gauge enables pinpoint pressure accuracy.

***Rochat* double geared etching press**
Printing bed size 65 x 120 cm (26 x 48 inches)
A heavy-duty machine with optimum pressure in the production of etchings.

***Polymetaal* etching press**
Printing bed size 80 x 160 cm (32 x 64 inches)
A heavy duty machine with adjustable upper roller to facilitate printing etchings, lithographs, relief prints, monotypes and collographs. Micrometer pressure gauge enables pinpoint pressure accuracy.

***Polymetaal* portable etching press**
Printing bed size 40 x 60 cm (16 x 32 inches)
A lightweight machine with adjustable upper roller to facilitate printing etchings, lithographs, relief prints, monotypes and collographs. Micrometer pressure gauge enables pinpoint pressure accuracy. Portability is ideal for outreach projects.

***McCrone Engineering* hydraulic press**
Bed size 57 x 77 cm (23 x 31 inches)
A heavy duty machine for papermaking and embossing.

***Morgan Rushworth* direct drive metal plate guillotine**
126cm cutting length, electrically driven etching plate cutter.

Ratcliffe **direct motorised lithographic press**
Printing bed size 67 x 100 cm (26.5 x 39.5 inches).
A heavy duty machine for printing lithographic stones.

Britannia **Relief printing press**
Bed size 50 cm x 64 cm
Albion style press for lino and wood blocks.

McCrone Engineering **hydraulic lifting table**
A heavy-duty metal top table , 70 x 100 cm, for transporting lithographic stones. Minimum height 55cm, maximum height 100cm.

Kippax **paraprint ¼ automatic parallel lift screenprinting table #**
Maximum print area 121 x 182cm (48 x 72 inches).
A horizontal lift screenprinting table with clearance of either side for overhang. Assisted pneumatic squeegee drive and pressure control. Pneumatic frame raise and lower.
Fine pitch x – y registration on printing base.

2 x *Kippax* paraprint ¼ automatic parallel lift screenprinting tables
Horizontal lift screenprinting tables with clearance of either side for overhang. Assisted pneumatic squeegee drive and pressure control. Pneumatic frame raise and lower.
Fine pitch x – y registration on printing base.

1 Kippax manual screen print table
Maximum print area 76 x 101cm (30 x 40 inches).

Natgraph **metal halide actinic light source**
4/6 kw with eight channel programme readout integrator.

Aluminium screens (49 to140T mesh) #
Screens for hire, ranging from 70 x 87cm (28 x 34 inches) to 170 x 239cm (67 x 94 inches).

Horizontal plan chests #
A0 size (six drawer) and A1 size (six drawer) plan chests, for hire to store users prints.

Hollander beater and other papermaking equipment

2. PHOTO-PROCESSING

Natgraph **vertical photo-stencil printing down frame**
Maximum screen frame size 170 x 271cm (67 x 107 inches).
Easy to use, space saving design with screen frames vertical at all times. Ultra fast vacuum exhaust system.

Natgraph **enclosed exposure system**
Maximum exposure size 101 x 127cm (40 x 50 inches)
A metal halide 2 kw light source with self-compensating light integrator. Glass cooling fan. Stencil safe and retouching lights. For all photo-print techniques bar screenprint.

3. DIGITAL IMAGING and CAD
The Print Studio has facilities for the production of all types of digital art. The latest technology provides high-end equipment, colour scanning and high-resolution archival quality print output.

2 x *Apple* **iMac** 20-inch widescreen display, with 2.0GHz dual-core Intel processor

Various PCs.

CNC MACHINES

Cadcam FB1530 laser-cutter. Large format machine, 30 watt power. Cutting area 1443mm x 968mm

Denford Vertical Router. Large-format 3-axis CNC Router. 1200 x 800 mm working envelope

Summa Cut Series D120R Vinyl cutter. Drag-knife with turbocut and tangential emulation modes. Blade, pen and Pounce tool. Media width 127cm, cut width 123cm.

Up! Plus 2 3D printer
Build Volume/Size: (W) 140 x (D) 140 x (H) 135 mm
Material: ABS
Layer Thickness / Print Resolution: 0.15 / 0.20 / 0.30 / 0.35 / 0.40 mm

Roland EGX-300 Desktop Engraver
Cutting area 305mm (X) x 230mm (Y) x30mm (Z)

PRINTERS:
Epson Stylus Pro 9880 A0+ 44" /111.8cm wide format printer
With Ultrachrome K3 with Vivid Magenta archival pigment inks.

Epson Stylus Photo R2400 A3+ Colour and black and white printer
With Ultrachrome K3 archival pigment inks.

Epson Stylus Photo RX585 A4 scanner/printer with **Claria Photographic ink**
Epson Stylus Photo 1400 A3+ with **Claria Photographic ink**

Canon A3 Laser Colour Photocopier with booklet maker and high resolution scanner

Riso RP 3700 A3 colour printer and scanner.

OTHER PERIPHERALS:
Epson **Perfection V700 Photo A4 flatbed scanner with transparency unit #**

Minolta **Dimage 35mm transparency scanner unit**

Wacom Tablets

SeaLion Easymount 650 Cold Laminator (for Lenticular prints)
Works with most cold mounting and over-laminating films and materials.
670mm working width, up to 15mm thick.

 Panasonic Lumix DMC-FZ50 Zoom 10.1 MP Digital SLR Camera

SOFTWARE:
Adobe Photoshop Creative Suite 3 Extended Production Premium
Premiere Pro CS3
After effects CS3 Pro
Flash CS3 Pro
Illustrator CS3
Soundbooth CS3
Adobe Encore CS3
Mitton 3D Lenticular Software
with Adobe Dynamic Link, Adobe Bridge CS3, Device Central CS3, and Adobe Acrobat Connect, Adobe On location CS3.

4. DARKROOM
3 x *Kaiser* **enlargers with multi grade heads**
Schneider **lens (50mm and 80mm**)
Nova **fibre print washer**
2 x *Nova* **film washers**

2 x **plastic coated print washers**
2 x *Devappa* **print dryers**
2 x *Devappa* **film drying cabinets**

2 x *Pentax* **MZ-M cameras with 35mm F4 – 80mm F5.6 lenses #**