NCCU FAB LAB EQUIPMENT

Desktop Plotter Cutter
Desktop Printer/Cutter

ROLAND GX-24

APPLICATIONS
Heat-applied apparel personalization
Unique signage
Decals
Speciality graphics
Window tint

SPECIFICATIONS
Resolution 0.0125 mm
Blade force 30 - 350 gf
Maximum cutting area 22.9in x 984.25in
Operating Software Roland CutStudio
Adobe Illustrator Plug-in

ROLAND BN-20

APPLICATIONS
Heat-applied apparel personalization
Custom Labels
Decals
Contour Graphics

SPECIFICATIONS
Acceptable Materials 1mm thickness
Blade force 30 - 300 gf
Maximum cutting printing area 22.9in x 18.9in
Resolution 1440 dpi
Operating Software Roland VersaWorks
NCCU FAB LAB EQUIPMENT
3D Printers

APPLICATIONS
Initial Prototyping
Functional prototyping
Manufacturing parts
Replacement parts
Modeling

LULZBOT TAZ
WORKHORSE PRINTER
Layer Resolution: 0.5 mm
Print Volume: 280mm x 280mm x 250mm

REPLICATOR+
CLASSROOM PRINTER
Layer Resolution: 100 micron
Print Volume: 290 mm x 190 mm x 165 mm

FORM 2
DESKTOP SLA PRINTER
Layer Resolution: 140 microns
Print Volume: 145 mm x 145 mm x 185 mm

MARK 2
DESKTOP CARBON FIBER
Layer Resolution: 100 micron
Print Volume: 320mm x 132mm x 154mm
NCCU FAB LAB EQUIPMENT
3D Printers

DELTAMAKER

LARGE FORMAT PRINTER
Layer Resolution: 100 microns
Print Volume: 200 mm x 200 mm x 700mm

SENSE SCANNER

HAND HELD 3D SCANNER
Scan volume: 3m x 3m x 3m
Spatial Resolution 0.9mm
Object classification
Object measurements
Object identification

CAPTURE

SCAN BASED DESIGN SCANNER
Scan volume: 190mm x 175m
Spatial Resolution 0.1mm
Inspection and Quality Control applications
Reverse engineering
Rapid prototyping
CFD/FEA Simulation analysis
NCCU FAB LAB EQUIPMENT
Machine Shop

ROLAND MD-40A
3D Milling Machine
Workspace size: 305mm X 305mm
Mechanical resolution 0.01mm/step

EPILOG HELIX
CO2 Laser Machine
Workspace size: 610mm X 305mm
Material thickness: 5.5"
Laser cut
Signage
POP displays

SHOPBOT DESKTOP
CNC Machine
Workspace size: 12" x 24"
Instrument making
Cabinet making
Digital fabrication
NCCU FAB LAB EQUIPMENT
Machine Shop

WAZER

*Desktop WaterJet*
Workspace size: 305mm X 305mm
Mechanical resolution 0.01mm/step

HAND TOOLS
BOT FACTORY

Desktop PCB Prototyping

RIGOL DS1052E OSCILLOSCOPE
RIGOL DC POWER SUPPLY
GLOBAL SPECIALIST PROTO-BOARD PB-503
SOLDERING STATIONS
NCCU FAB LAB EQUIPMENT

Fashion

BABY LOCK ALLEGRA

SAWGRASS PRINTER

Desktop Sublimation Printer

15” X 15” DUAL STATION HEAT PRESS