

■ Process Support by ULVAC Solutions

ULVAC leads the LCD Industry in delivering a-Si and LTPS (Low Temperature Poly-Si) TFT manufacturing technology

R&D activities for every process need

◆ *Voluntary R&D, such as*

- Low-hydrogen contained a-Si (for gate and barrier layer)
- Low resistance ITO film
- Reduction of hill-rock in Al film

◆ *Process & software improvement for ULVAC systems*

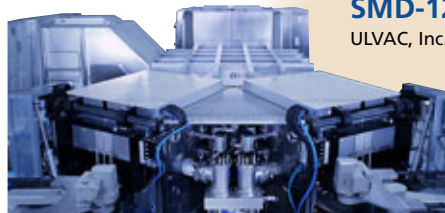
◆ *Software sales on the developed technologies*

◆ *Sample making and analysis on customers' request*

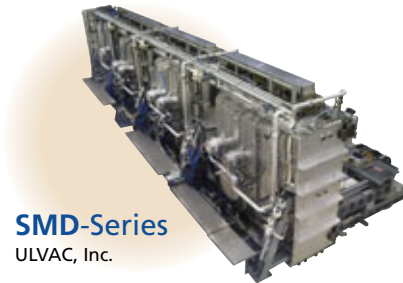


Systems

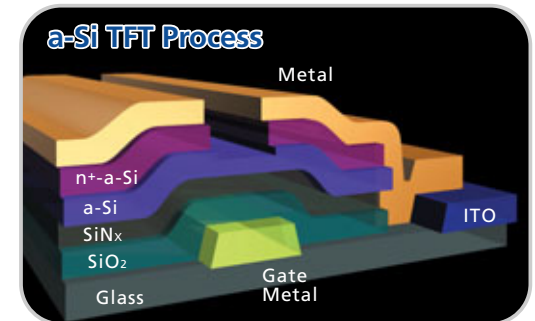
Multi-Chamber Sputtering for a-Si TFT & Poly Si TFT



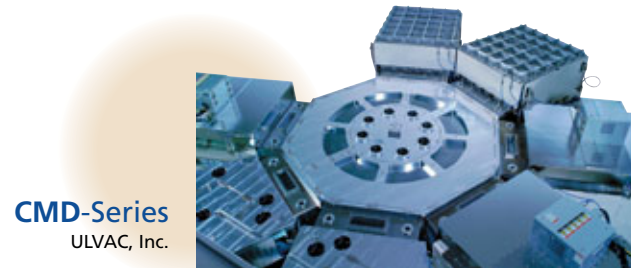
SMD-1200X
ULVAC, Inc.



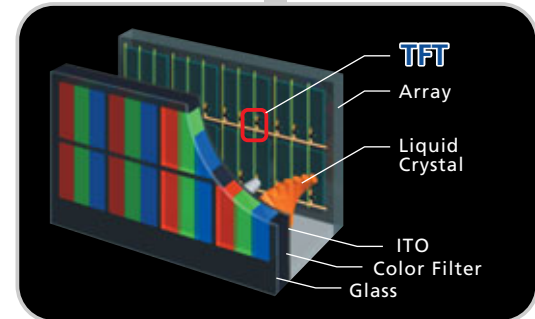
SMD-Series
ULVAC, Inc.



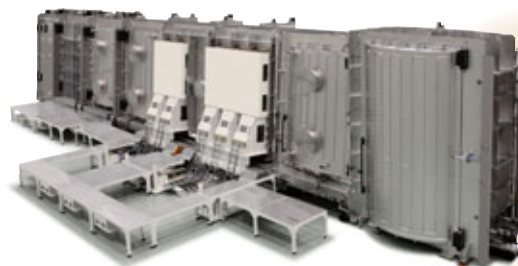
Multi-Chamber CVD for a-Si TFT & Poly Si TFT



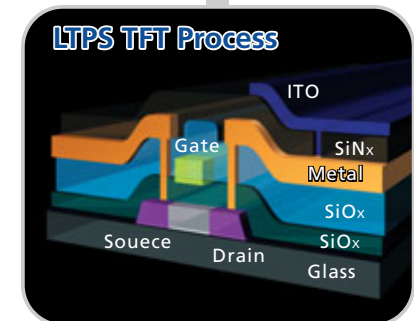
CMD-Series
ULVAC, Inc.



New Inline Sputtering for Color Filter



SDP-s Series
ULVAC, Inc.



Components

Analyzer / Measurement



PHI 700
PHI TRIFT III
ULVAC-PHI, Inc.

REPROS
ULVAC, Inc.



Qulee
ULVAC, Inc.

Vacuum Pump

LR/HR Series
ULVAC, Inc.



UTM-FW/FH Series
ULVAC, Inc.

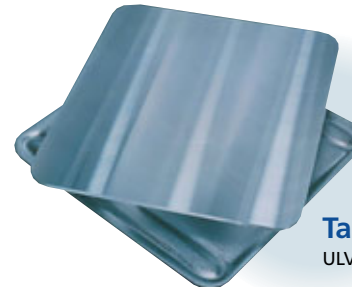


CRYO-T8/12
ULVAC CRYOGENICS, INC.



CRYO-U 12HSP
ULVAC CRYOGENICS, INC.

Material



Target
ULVAC Materials, Inc.