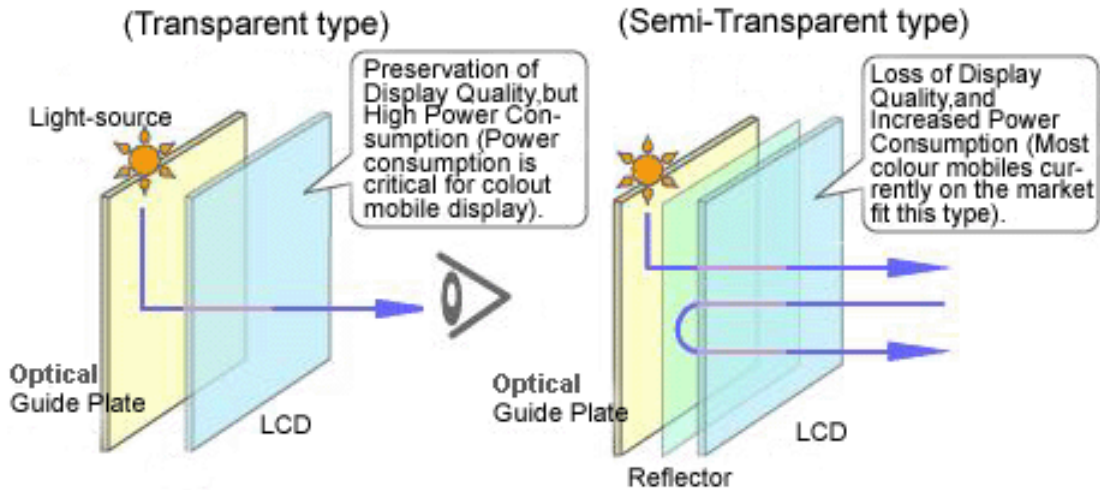


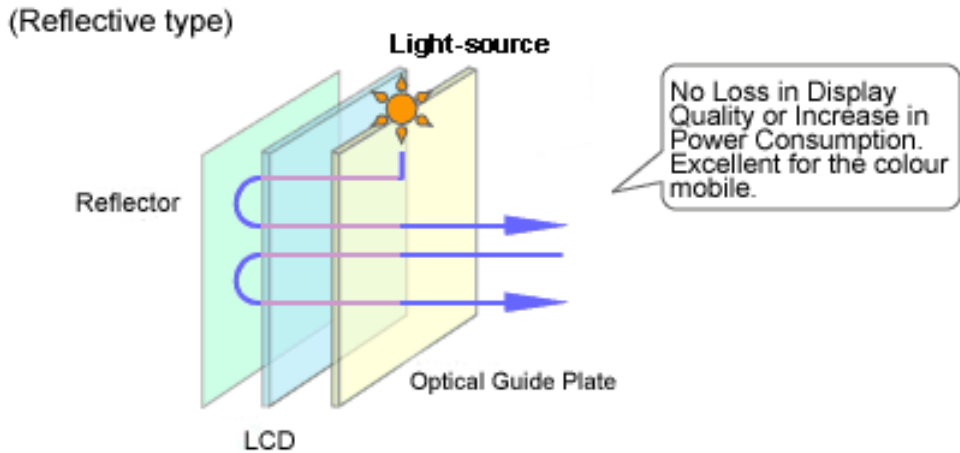
# Lighting Devices

Front and back lights are commonly used as an external light source for color LCDs.

## BackLight



## Front Light



# Lighting Devices for Color LCD

## Applications & Size

- |               |             |
|---------------|-------------|
| •PDA          | 2.5-3.8inch |
| •Mobile Phone | 1.0-2.2inch |
| •Communicator | 2.0-3.5inch |
| •DSC          | 1.5-2.5inch |

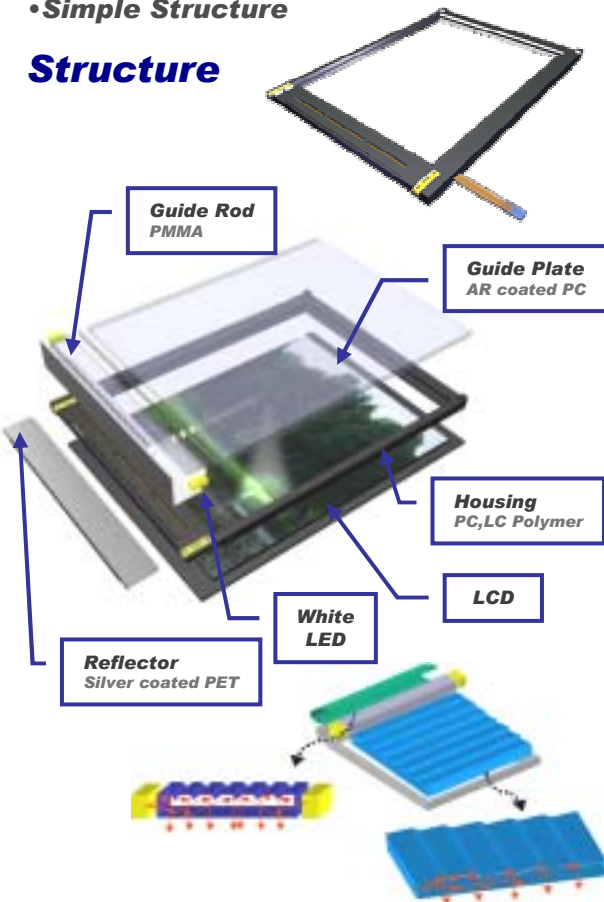


## Front Light Assembly for Reflective LCD

### Features

- Clear Guide Plate
- Low power consumption
- Simple Structure

### Structure



### Guide Plate

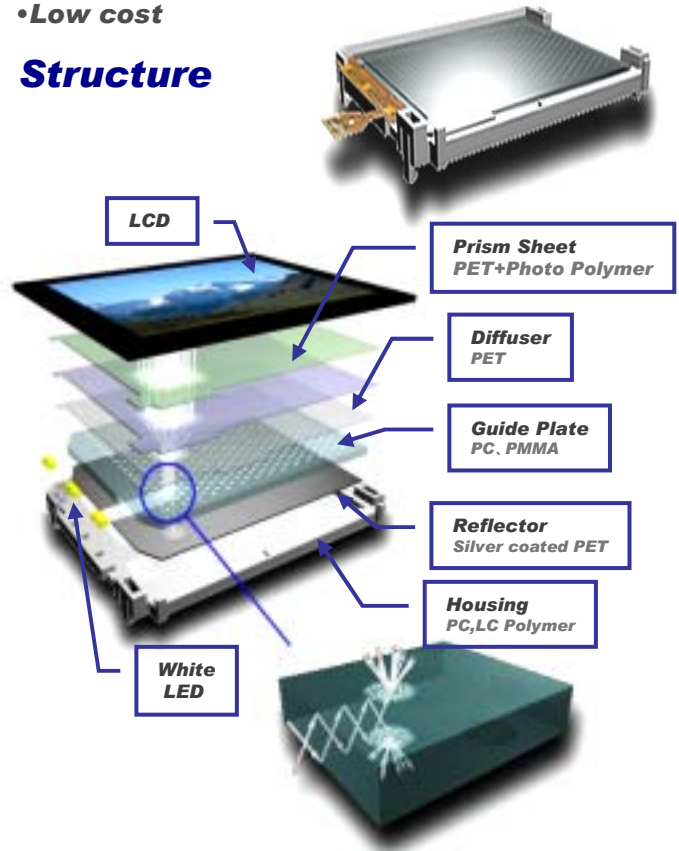
- |              |                   |
|--------------|-------------------|
| ■ Material   | PC                |
| ■ Molding    | Injection molding |
| ■ Upper side | micro prism       |
| ■ LCD side   | AR coating        |
| ■ Thickness  | 0.8-0.4mm         |

## Back Light Assembly for Transmissive LCD

### Features

- High Efficiency
- Superior Uniformity
- Low cost

### Structure



### Guide Plate

- |             |                           |
|-------------|---------------------------|
| ■ Material  | PC, PMMA                  |
| ■ Molding   | Injection molding         |
| ■ Dot Size  | $\Phi=10-100 \mu\text{m}$ |
| ■ Dot Pitch | 100-400 $\mu\text{m}$     |
| ■ Thickness | 0.8-0.4mm                 |